

New Publications of the U.S. Geological Survey

IMPORTANT ANNOUNCEMENT FOR SUBSCRIBERS

Effective with the July-September 2003 issue, the U.S. Geological Survey will no longer print and distribute the quarterly version of "New Publications of the U.S. Geological Survey." The July-September 2003 and October-December 2003 issues will be released online through the USGS at <http://pubs.usgs.gov/publications/>

Comments concerning this change may be sent to the U.S. Geological Survey, 903 National Center, Reston, VA 20192.

Lists 1140–1142—Publications issued July–September 2003

AVAILABILITY OF U.S. GEOLOGICAL SURVEY CATALOGS

These permanent catalogs, as well as some others, are available under the conditions indicated below from USGS Information Services, Box 25286, Federal Center, Denver, CO 80225. A \$5 handling charge is applicable on each order. The catalogs are also available over the counter at any of the U.S. Geological Survey offices that sell books.

Permanent catalogs “Publications of the Geological Survey, 1879–1961” and “Publications of the Geological Survey, 1962–1970” may be purchased in paperback book form for \$6.

Permanent catalog “Publications of the U.S. Geological Survey, 1971 through 1981” may be purchased in paperback book form (two volumes, publications listing and index) for \$15.

Supplements for 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, and 2000 may be purchased in paperback book form and are priced as follows: 1982, \$3; 1983, \$3; 1984, \$3.25; 1985, \$3.75; 1986, \$4.25; 1987, \$4; 1988, \$3.75; 1989, \$4; 1990, \$4.50; 1991, \$4.25; 1992, \$5; 1993, \$7.50; 1994, \$7.50; 1995, \$7.50; 1996, \$7.50; 1997, \$7.50; 1998, \$7.50; 1999, \$7.50; 2000, \$7.50. The 2001 and 2002 Annual Supplements are free and available online only at <http://pubs.usgs.gov/publications/>.

“New Publications of the U.S. Geological Survey” is also available electronically through the USGS at <http://pubs.usgs.gov/publications/>.

The U.S. Geological Survey Publications Data Base includes comprehensive bibliographic information on USGS reports and maps published from 1880 to the present and references for non-USGS publications with USGS authors published from 1983 to date—a total of approximately 110,000 publications. Free public access to the data base is provided as a public service by the U.S. Geological Survey at <http://usgs-georef.cos.com> and through the USGS home page at <http://www.usgs.gov>.

**U.S. Department of the Interior
U.S. Geological Survey**

New Publications of the U.S. Geological Survey

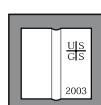
Lists 1140–1142—Publications issued July–September 2003

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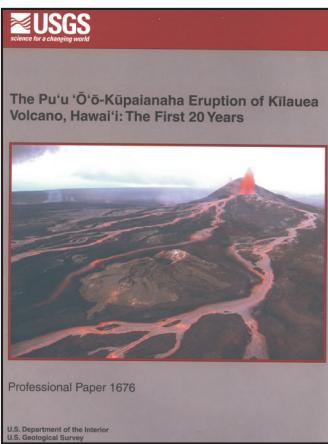
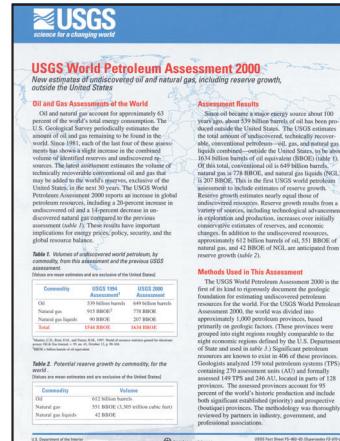
* No new publications in this series for this quarter.

NEW PUBLICATIONS OF SPECIAL INTEREST

Fact Sheet 0062-03

USGS world petroleum assessment 2000; new estimates of undiscovered oil, natural gas, and natural gas liquids, including reserve growth, outside the United States, by T. S. Ahlbrandt, B. S. Pierce and Vito Nuccio. 2003. 2 p. (Supersedes Fact Sheet 070-00.) Available on the web at <http://pubs.usgs.gov/fs/fs-062-03/>

Oil and natural gas account for approximately 63 percent of the world's total energy consumption. The U.S. Geological Survey periodically estimates the amount of oil and gas remaining to be found in the world. The latest assessment estimates the volume of technically recoverable conventional oil and gas that may be added to the world's reserves, exclusive of the United States, in the next 30 years. The USGS World Petroleum Assessment 2000 reports an increase in global petroleum resources, including a 20-percent increase in undiscovered oil and a 14-percent decrease in undiscovered natural gas compared to the previous assessment. These results have important implications for energy prices, policy, security, and the global resource balance.



Professional Paper 1676

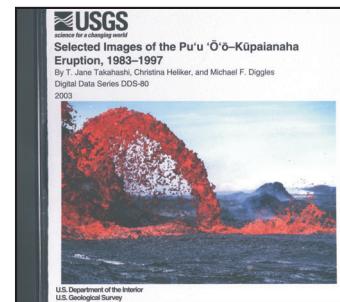
P 1676. HAWAII. The Pu'u 'O'o-Kūpaianaha eruption of Kīlauea Volcano, Hawai'i; the first 20 years, edited by Christina Heliker, D. A. Swanson and T. J. Takahashi. 2003. 206 p. \$35. Available on the web at <http://geopubs.wr.usgs.gov/prof-paper/pp1676/>

The Pu'u 'O'o-Kūpaianaha eruption that began in January 1983 is already the longest eruption of Kīlauea Volcano, Hawai'i, since the 19th century. The 12 chapters in this volume describe and analyze various aspects of the eruption and document the growth in understanding that has resulted from research during the first 20 years of this eruption.

Digital Data Series 0080

DDS-0080. Selected images of the Pu'u 'O'o-Kūpaianaha eruption, 1983-1997, by T. J. Takahashi, Christina Heliker and M. F. Diggles. 2003. One CD-ROM. \$32. Available on the web at <http://geopubs.wr.usgs.gov/dds/dds-80>

The 100 images in this CD-ROM have been selected from the collections of the Hawaiian Volcano Observatory as enduring favorites of the staff, researchers, media, designers, and the public over time. They represent photographs of a variety of geological phenomena and eruptive events, chosen for their content, quality of exposure, and aesthetic appeal. Hawaiian words and place names are listed to facilitate searching.





FORMAL REPORTS DIGITAL DATA SERIES

The Digital Data Series encompasses a broad range of digital data, including computer programs, interpreted results of investigations, comprehensive reviewed data bases, spatial data sets, digital images and animation, and multi-media presentations that are not intended for printed release. Scientific reports in this series cover a wide variety of subjects on all facets of U.S. Geological Survey investigations and research that are of lasting scientific interest and value. Releases in the Digital Data Series offer access to scientific information that is available in digital form; the information is primarily for viewing, processing, and (or) analyzing by computer.

DDS-0080. Selected images of the Pu'u 'Ō'ō-Kūpaianaha eruption, 1983–1997, by T. J. Takahashi, Christina Heliker and M. F. Diggles. 2003. One CD-ROM. \$32. Available on the web at <http://geopubs.wr.usgs.gov/dds/dds-80/>

This CD-ROM has been produced in accordance with the ISO 9660 Standard and is therefore capable of being read on any computing program that has appropriate CD-ROM driver software installed. System requirements: Macintosh (1) PowerPC processor, (2) Mac OS software version 9.1, 9.2, or OS X, and (3) 64 MB of RAM. Windows (1) Intel Pentium or compatible R-class processor-based personal computer, (2) Microsoft Windows, Windows 98 SE, Windows Millennium, Windows NT 4.0 with Service Pack 5 or 6 (Service Pack 6 recommended), Windows 2000, or Windows XP Professional or Home Edition, and (3) 64 MB of RAM; UNIX: Almost any UNIX system-based or Linux workstation can read these files.

The 100 images in this CD-ROM have been selected from the collections of the Hawaiian Volcano Observatory as enduring favorites of the staff, researchers, media, designers, and the public over time. They represent photographs of a variety of geological phenomena and eruptive events, chosen for their content, quality of exposure, and aesthetic appeal. Hawaiian words and place names are listed to facilitate searching.

PROFESSIONAL PAPERS

Professional Papers are mainly comprehensive scientific reports of wide and lasting interest and importance to professional scientists and engineers. Included are reports on the results of resource studies, and of topographic, hydrologic, and geologic investigations. They also include collections of related papers addressing different aspects of a single scientific topic.

P 1668. IDAHO. Correlation, sedimentology, structural setting, chemical composition, and provenance of selected formations in Mesoproterozoic Lemhi Group, central Idaho, by R. G. Tysdal, D. A. Lindsey and J. E. Taggart, Jr. 2003. 40 p. \$7.50. Available on the web at <http://pubs.usgs.gov/pp/p1668/>

The middle subunit of the Mesoproterozoic Yellowjacket Formation in the Salmon River Mountains is renamed the banded siltite unit and is assigned to the Apple Creek Formation. The overlying sandstone is assigned to the Gunsight Formation. These strata were displaced northeastward as part of the Poison Creek

thrust sheet, which is extended westward from the Lemhi Range into the Salmon River Mountains. Major-oxide ratios, statistical analysis of covariance among major oxides and trace elements, and analysis of variance among stratigraphic units are used to determine relationships between provenance and chemical composition of the Mesoproterozoic Big Creek, Apple Creek, and Gunsight formations.

A. IDAHO. Correlation, sedimentology, and structural setting, upper strata of Mesoproterozoic Apple Creek Formation and lower strata of Gunsight Formation, Lemhi Range to Salmon River Mountains, east-central Idaho, by R. G. Tysdal. p. 1–22.

B. IDAHO. Chemical composition and provenance of the Mesoproterozoic Big Creek, Apple Creek, and Gunsight formations, Lemhi Group, central Idaho, by D. A. Lindsey, R. G. Tysdal and J. E. Taggart, Jr. p. 23–40.

P 1673. ALASKA. Revised Cretaceous and Tertiary stratigraphic nomenclature in the Colville Basin, Northern Alaska, by C. G. Mull, Alaska Division of Oil and Gas; D. W. Houseknecht, and K. J. Bird, U.S. Geological Survey. Prepared in cooperation with the Alaska Department of Natural Resources, Division of Geological and Geophysical Surveys and Division of Oil and Gas. 2003. Available on the web at <http://pubs.usgs.gov/pp/p1673/>

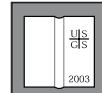
A revised stratigraphic nomenclature is proposed for Cretaceous and Tertiary geologic exposures of the North Slope of Alaska. This nomenclature is a simplified scheme suitable for digital geologic quadrangle maps. This revised nomenclature proposes the abandonment of the Colville Group; demotion of the Nanushuk Group to formation status; abandonment of six formations (Kukpowruk, Tuktu, Grandstand, Corwin, Chandler, and Ninuluk); revision of four formations (Sagavanirkot, Prince Creek, Schrader Bluff, and Seabee); elevation of the Tuluvak Tongue of the Prince Creek Formation to formation status; revision of two members (Franklin Bluffs Member and Sagwon Member of the Sagavanirkot Formation); elimination of eight members or tongues (Kogosukruk, Rogers Creek, Barrow Trail, Sentinel Hill, Aiyik, Shale Wall, Niakogon, and Killik); and definition of one new member (White Hills Member of the Sagavanirkot Formation).

P 1676. HAWAII. The Pu'u 'Ō'ō-Kūpaianaha eruption of Kīlauea Volcano, Hawai'i; the first 20 years, edited by Christina Heliker, D. A. Swanson and T. J. Takahashi. 2003. 206 p. \$35. Available on the web at <http://geopubs.wr.usgs.gov/prof-paper/pp1676/>

The Pu'u 'Ō'ō-Kūpaianaha eruption that began in January 1983 is already the longest eruption of Kīlauea Volcano, Hawai'i, since the 19th century. The 12 chapters in this volume describe and analyze various aspects of the eruption and document the growth in understanding that has resulted from research during the first 20 years of this eruption.

The first two decades of the Pu'u 'Ō'ō-Kūpaianaha eruption; chronology and selected bibliography, by Christina Heliker and T. N. Mattox. p. 1–27.

The rise and fall of Pu'u 'Ō'ōcone, 1983–2002, by Christina Heliker, Jim Kauahikaua, D. R. Sherrod, Michael Lisowski and P. F. Cervelli. p. 29–51.



Correlation between lava-pond drainback, seismicity, and ground deformation at Pu'u 'Ō'ō, by S. R. Barker, D. R. Sherrod, Michael Lisowski, Christina Heliker and J. S. Nakata. p. 53-62.

HAWAII. Hawaiian lava-flow dynamics during the Pu'u 'Ō'ō-Kūpaianaha eruption; a tale of two decades, by Jim Kauahikaua, D. R. Sherrod, K. V. Cashman, Christina Heliker, Ken Hon, T. N. Mattox and J. A. Johnson. p. 63-87.

The transition from 'a'a to pahoehoe crust on flows emplaced during the Pu'u 'Ō'ō-Kūpaianaha eruption, by Ken Hon, C. A. Gansecki and Jim Kauahikaua. p. 89-103.

Thermal efficiency of lava tubes in the Pu'u 'Ō'ō-Kūpaianaha eruption, by R. T. Helz, Christina Heliker, Ken Hon and Margaret Mangan. p. 105-120.

Magma-reservoir processes revealed by geochemistry of the Pu'u 'Ō'ō-Kūpaianaha eruption, by C. R. Thornber. p. 121-136.

Lava-effusion rates for the Pu'u 'Ō'ō-Kūpaianaha eruption derived from SO₂ emissions and very low frequency (VLF) measurements, by A. J. Sutton, Tamar Elias and Jim Kauahikaua. p. 137-148.

The shallow magmatic system of Kīlauea Volcano, by P. F. Cervelli and Asta Miklius. p. 149-163.

Long-term trends in microgravity at Kīlauea's summit during the Pu'u 'Ō'ō-Kūpaianaha eruption, by Jim Kauahikaua and Asta Miklius. p. 165-171.

Tectonic pulses during Kīlauea's current long-term eruption, by Paul Okubo and J. S. Nakata. p. 173-186.

Stress changes before and during the Pu'u 'Ō'ō-Kūpaianaha eruption, by J. H. Dieterich, Valérie Cayol and Paul Okubo. p. 187-201.

HAWAII. Volunteers at the Hawaiian Volcano Observatory, 1983-2002, by S. R. Brantley. p. 203-206.

BULLETINS

Bulletins contain significant data and interpretations that are of lasting scientific interest but are generally more limited in scope or geographic coverage than Professional Papers. They include the results of resource studies and of geologic and topographic investigations, as well as collections of short papers related to a specific topic.

B 1839-K. OHIO, PENNSYLVANIA, WEST VIRGINIA. Stratigraphic framework of Cambrian and Ordovician rocks in the central Appalachian Basin from Medina County, Ohio, through southwestern and south-central Pennsylvania to Hampshire County, West Virginia, by R. T. Ryder, A. G. Harris, and J. E. Repetski; revised and digitized by R. D. Crangle, Jr. 2003. 40 p., 1 over-size sheet. (Evolution of sedimentary basins; Appalachian Basin.) Available on the web at <http://pubs.usgs.gov/bul/b1839K/>

Oil and gas exploration in the Ohio, Pennsylvania, and West Virginia parts of the Appalachian Basin, from the late 1950's to the middle 1980's, resulted in the drilling of a modest number of holes into Cambrian strata and (or) Precambrian basement rocks. On the basis of geophysical and lithologic logs from these drill holes and paleontologic data from one of these holes. A 275-mi-long restored stratigraphic cross section has been drawn through the Cam-

brian and Ordovician sequence from Medina County, Ohio, through southwestern and south-central Pennsylvania to Hampshire County, West Virginia (section C-C'). The stratigraphic framework of the Cambrian and Ordovician sequence along this cross section and, to a lesser extent, the structure of the underlying block-faulted basement rocks are the main topics of this paper.

B 2064-KK. IDAHO. Geology of an Ordovician stratiform base-metal deposit in the Long Canyon area, Blaine County, Idaho, by B. R. Otto and G. A. Zieg. 2003. 23 p. (Geology and mineral resources of the Hailey 1 degree x 2 degrees quadrangle and the western part of the Idaho Falls 1 degree x 2 degrees quadrangle, Idaho.) Available on the web at <http://pubs.usgs.gov/bul/b2064-kk/index.html>

In the Long Canyon area, Blaine County, Idaho, a stratiform base-metal-bearing gossan is exposed within a complexly folded and faulted sequence of Ordovician strata. Abrupt thickness changes and geochemical zoning in the metal-bearing strata suggest that the gossan is near the source of an Ordovician subaqueous hydrothermal system.

B 2172-D. Modified Arrington method for calculating reserve growth; a new model for United States oil and gas fields, by M. K. Verma. 2003. 14 p. (Geologic, engineering, and assessment studies of reserve growth, edited by T. S. Dyman, J. W. Schmoker, and Mahendra Verma.) Available on the web at <http://pubs.usgs.gov/bul/b2172-d/>

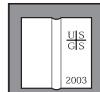
Reserve (or field) growth, an increase in estimated total hydrocarbon reserves through time, plays an important role—especially in mature petroleum provinces (like many in the United States), when the rate of new discoveries reduces to a low level. To forecast reserve growth accurately for the United States, the original Arrington method was critically reviewed for possible improvement. Cumulative growth factor smoothing produces better results and forms the basis for the new growth functions—modified Arrington. Compared to previous functions, the new functions predict reserve growths that are closer to actual known hydrocarbon volumes, particularly for oil, for a 5-year period (1992-96).

B 2172-F. Graphic comparison of reserve-growth models for conventional oil and accumulation, by T. R. Klett. 2003. p. F1-F63. (Geologic, engineering, and assessment studies of reserve growth, edited by T. S. Dyman, J. W. Schmoker, and Mahendra Verma.) Available on the web at <http://pubs.usgs.gov/bul/b2172-f/>

Future reserve growth in existing fields is a major component of remaining U.S. oil and natural gas resources and has therefore become a necessary element of U.S. petroleum resource assessments. Past and currently proposed reserve-growth models are compared to aid in the selection of a suitable algorithm for use in the ongoing National Oil and Gas Assessment Project. The reserve-growth models use past annual volumetric changes of fields and reservoirs that have been grouped by age.

B 2202-H. Total petroleum systems of the Paleozoic and Jurassic, Greater Ghawar Uplift and adjoining provinces of central Saudi Arabia and northern Arabian-Persian Gulf, by R. M. Pollastro. 2003. 100 p. Available on the web at <http://pubs.usgs.gov/bul/b2202-h/>

The Paleozoic and Jurassic total petroleum systems of the central part of the Arabian Peninsula are two of the most prolific hy-



drocarbon-producing systems in the world. This report is part of the USGS World Petroleum Assessment 2000 series and provides details of the various geologic elements and geographical extent of these total petroleum systems. From analysis of the geology, and exploration and production histories, undiscovered conventional oil and gas resources are assessed.

CIRCULARS

Circulars present technical or nontechnical information of wide popular interest in a format designed for distribution at no cost to the public. They are published to disseminate administrative information or important scientific information of an ephemeral nature.

C 1143. Coal; a complex natural resource; an overview of factors affecting coal quality and use in the United States, by S. P. Schweinfurth, with a contribution on coal quality and public health, by R. B. Finkelman. 2003. 39 p. Available on the web at <http://pubs.usgs.gov/circ/c1143>

This report acquaints students, noncoal scientists, and the general public with some basic information on the origins of coal and how they affect coal quality, the complex nature of coal quality, methods for determining coal quality, and the wide variety of coal usage in the United States and how coal quality affects the many byproducts of coal. Some of the factors that contribute to coal's complex nature are the plants in the peat swamps in which coal precursors originate; biological and chemical processes; the swamp geometry, location, and age; mineral matter in the coal; and the process of coalification. A section on coal quality and public health is included to educate the public on the harmful effects of poor coal quality.

C 1196-G. Iron and steel recycling in the United States in 1998, by M. D. Fenton. 2003. p. G1–G8. (Flow studies for recycling metal commodities in the United States.) Available on the web at <http://pubs.usgs.gov/circ/c1196g/>

Consumption of iron and steel scrap and the health of the scrap industry depend directly on the health of the steelmaking industry. The United States, as well as most of the world, is expected to consume increasing amounts of scrap as a steadily increasing population demands more steel products. An estimated 75 million metric tons of scrap was generated during 1998 in the United States, and 35 million tons of old scrap and 18 million tons of new scrap were consumed. The recycling efficiency was calculated to be 52 percent, and the recycling rate was found to be 41 percent.

C 1196-I. Columbium (niobium) recycling in the United States in 1998, by L. D. Cunningham. 2003. p. I1–I9. (Flow studies for recycling metal commodities in the United States.) Available on the web at <http://pubs.usgs.gov/circ/c1196i/>

This report describes the flow of columbium (niobium) in the United States in 1998 with emphasis on the extent to which columbium was recycled or reused. Columbium was mostly recycled from products of columbium-bearing steels and superalloys; little was recovered from products specifically for their columbium content. In 1998, about 1,800 metric tons of columbium was recycled or reused; about 55 percent of that was derived from old scrap. The columbium recycling rate was calculated to be 22 percent, and columbium scrap recycling efficiency, 50 percent.

C 1196-J. Tantalum recycling in the United States in 1998, by L. D. Cunningham. 2003. p. J1–J10. (Flow studies for recycling metal commodities in the United States.) Available on the web at <http://pubs.usgs.gov/circ/c1196j/>

This report describes the flow of tantalum in the United States in 1998 with emphasis on the extent to which tantalum was either recycled or reused. Tantalum was recycled mostly from new scrap that was generated during the manufacture of tantalum-related electronic components and new and old scrap products of tantalum-containing cemented carbides and superalloys. In 1998, about 210 metric tons of tantalum was either recycled or reused, about 43 percent of which was derived from old scrap. The tantalum recycling rate was calculated to be 21 percent, and tantalum scrap recycling efficiency, 35 percent.

C 1196-K. Tin recycling in the United States in 1998, by J. F. Carlin, Jr. 2003. p. K1–K8. (Flow studies for recycling metal commodities in the United States.) Available on the web at <http://pubs.usgs.gov/circ/c1196k/>

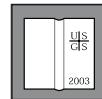
This materials flow study includes a description of tin supply and demand factors for the United States to illustrate the extent of tin recycling and to identify recycling trends. Understanding the flow of materials from source to ultimate disposition can assist in improving the management of the use of natural resources in a manner that is compatible with sound environmental practices. The quantity of tin recycled in 1998 as a percentage of apparent tin supply was estimated to be about 22 percent, and recycling efficiency was estimated to be 75 percent. Of the total tin consumed in products for the U.S. market in 1998, an estimated 12 percent was consumed in products where the tin was not recyclable.

C 1196-L. Molybdenum recycling in the United States in 1998, by J. W. Blossom. 2003. p. L1–L9. (Flow studies for recycling metal commodities in the United States.) Available on the web at <http://pubs.usgs.gov/circ/c1196l/>

This report describes the flow of molybdenum in the United States in 1998 with emphasis on the extent to which molybdenum was recycled. Molybdenum was mostly recycled from products of molybdenum-bearing steels and superalloys; some molybdenum products were recovered specifically for their high molybdenum content. In 1998, 8,000 metric tons of molybdenum were estimated to have been recycled, and the recycling rate was calculated to be 33 percent, with a recycling efficiency of about 30 percent.

C 1247. Evolving issues and practices in managing ground-water resources; case studies on the role of science, by D. L. Galloway, W. M. Alley, P. M. Barlow, T. E. Reilly and Patrick Tucci. 2003. 73 p. Available on the web at <http://water.usgs.gov/pubs/circ/2003/circ1247/>

This Circular describes the role of science in its support of emerging issues and practices in the management of ground-water resources. Ground-water-resource management requires consideration of the interaction among management decisions, the dynamic nature of the ground-water system to be managed, and the environmental and other consequences that result from management actions. Seven case studies demonstrate how data-collection networks, ground-water-resource assessments, and predictive models are used to assist in aquifer management. The case studies are drawn from recently completed and ongoing data-collection activities and ground-water-resource investigations by the U.S. Geological Survey.



MISCELLANEOUS AND SPECIAL BOOKS

Geographic Names Information System (GNIS)

GNIS, developed by the Geographic Names Office, Mapping Applications Center, is the basis for the Digital Gazetteer of the United States (CD-ROM) and includes all names in the data base as of July 1999, as well as the necessary software for searching, analyzing, and exporting the data. The software must be installed onto an IBM-compatible hard disk before the data can be used. The CD-ROM, which can be purchased for \$57 plus \$5.00 shipping, contains the National Geographic Names Data Base (NGNDB), Antarctica Geographic Names Data Base (AGNDB), Topographic Map Names Data Base (TMNDB), and Reference Data Base (RDB). Each record in the NGNDB, AGNDB, and TMNDB can contain a variety of location and description fields. All can be displayed, and most can be searched. Not all fields, however, contain data. The RDB contains one field—bibliography. The CD-ROM is no longer accompanied by a users manual. The installation procedures, readme file, and trouble shooting guide are provided in WordPerfect, HTML, and PDF formats. All necessary information regarding startup procedures are listed in the "Getting Started" directory on the CD.

The GNIS CD-ROM may be ordered from Information Services, U.S. Geological Survey, DFC, Building 810, MS 306, Denver, CO 80225, or by telephoning 1-888-ASK-USGS. Prepayment is required. Please make check or money order payable to Department of the Interior—USGS. VISA, MasterCard, American Express, and Discover Card are accepted. Prices are subject to change.

Information and Technical Specifications may be requested from U.S. Geological Survey, Manager GNIS, 523 National Center, Reston, VA 20192. 703-648-4544.

FACT SHEETS

Fact Sheets are used to disseminate timely information on scientific and technical programs of the U.S. Geological Survey and are available, at no cost, from USGS Information Services, Box 25286, Denver, CO 80225.

FS 0155-02. Tracking contaminants in Santa Monica Bay, offshore of greater Los Angeles, by H. J. Lee, Megan McQuarrie and Lori Hibbeler. 2003. 4 p. Available on the web at
<http://geopubs.wr.usgs.gov/fact-sheet/fs155-02/>

FS 0005-03. NEW MEXICO. Municipal stormwater sampling program, metropolitan area, Albuquerque, New Mexico; summary of sampling, 1992-2002, by J. E. Veenhuis. 2003. 4 p.

FS 0021-03. FLORIDA. Measuring and mapping the topography of the Florida Everglades for ecosystem restoration, by G. B. Desmond. 2003. 4 p.

FS 0022-03. The U.S. Geological Survey Land Remote Sensing Program. 2003. 2 p.

FS 0032-03. Earth Observing-1 extended mission. 2003. 2 p.

FS 0036-03. Rapid-deployment data-collection networks for wildland fire applications, by R. W. Teller, U.S. Geological Survey; M. L. Williams, U.S. Forest Service; T. S. Murphy, National Weather Service; and Pam Buck, Pennington County Emergency Management, South Dakota. 2003. 4 p. Available on the web at
<http://water.usgs.gov/pubs/fs/fs03603/fs03603.html>

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OF 03-0209. FLORIDA. Potentiometric surface of the upper Floridan Aquifer in the St. Johns River Water Management District and vicinity, Florida, September 2002, by Sandra Kinnaman and Leel Knowles, Jr. Prepared in cooperation with St. Johns River Water Management District; South Florida River Water Management District; Southwest Florida River Water Management District. 1 over-size sheet. (NC, Da, M.) \$7.50.

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This disc has been produced in accordance with the UDF Standard and therefore capable of being read on any computing platform that has a DVD drive.

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OF 03-0280. NEW MEXICO. Questa baseline and pre-mining ground-water quality investigation 6; preliminary brittle structural geologic data, Questa mining district, southern Sangre de Cristo Mountains, New Mexico, by J. S. Caine. Prepared in cooperation with the New Mexico Environment Department. 24 p. (NC, M, Da; New Mexico Bur. of Mines & Mineral Resources, Campus Station, Socorro, NM 87801.) Available on the web at <http://pubs.usgs.gov/of/2003/ofr-03-280/>

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THEMATIC MAPS AND CHARTS GEOLOGIC INVESTIGATIONS SERIES

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I-2765. IDAHO. Geologic map of the Salmon National Forest and vicinity, east-central Idaho, compiled by K. V. Evans and G. N. Green. 2003. Two sheets. (Accompanied by 19 page text.) \$14. Available on the web at <http://pubs.usgs.gov/imap/2003/i-2765/>

SHEET 1. Geologic map of the western part of the Salmon National Forest, by R. G. Tysdal, K. I. Lund and K. V. Evans. Lat 45° to 45°30', long 114° to 115°. Scale 1:100,000 (1 inch = about 1.6 miles) Sheet 41 by 58 inches (in color).

SHEET 2. Geologic map of the eastern part of the Salmon National Forest, by K. I. Lund, K. V. Evans, R. G. Tysdal and G. R. Winkler. Lat 44°30' to 45°30', long 113° to 114°. Scale 1:100,000 (1 inch = about 1.6 miles) Sheet 34 1/2 by 58 inches (in color).

I-2789. Map of surficial deposits and materials in the eastern and central United States (east of 102° west longitude), by D. S. Fullerton, C. A. Bush and J. N. Pennell. 2003. Lat 25° to 48°, long 67° to 102°. Scale 1:2,500,000 (1 inch = about 40 miles). Sheet 51 by 47 inches (in color). (Accompanied by 46 page text.) \$7. Available on the web at <http://pubs.usgs.gov/imap/i-2789/>

MISCELLANEOUS FIELD STUDIES MAPS

Multicolor or black and white maps on topographic or planimetric bases; quadrangle or irregular areas; various scales. Pre-1971 maps show bedrock geology in relation to specific mining or mineral-deposit problems; the majority of post-1971 maps are preliminary black and white maps on various subjects such as environmental studies or Wilderness mineral investigations.

MF-2381-A. NEVADA, CALIFORNIA. Geologic map of the Death Valley ground-water model area, Nevada and California, by J. B. Workman, C. M. Menges, W. R. Page, Emily Taylor, E. B. Ekren, P. D. Rowley, G. L. Dixon, R. A. Thompson and L. A. Wright. Prepared in cooperation with the Nevada Operations Office, National Nuclear Security Administration, and U.S. Department of Energy. 2002. Two sheets. Lat 35° to 38°15', long 115° to 118°. Scale 1:250,000 (1 inch = about 4 miles). Sheet 1, 46 by 63 inches; sheet 2, 26 by 36 inches (both in color). (Accompanied by 26 page text.) (Map-on-demand.) \$20 per sheet. Available on the web at <http://pubs.usgs.gov/mf/2002/mf-2381/>

MF-2412. ARKANSAS. Geologic map of the Ponca Quadrangle, Newton, Boone, and Carroll counties, Arkansas, by M. R. Hudson

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OUTSIDE PUBLICATIONS

ARTICLES AND REPORTS

Articles by USGS personnel in non-USGS publications recently cited in the GeoRef data base of the American Geological Institute are listed below. Non-USGS personnel who share authorship in articles with USGS personnel are indicated by an asterisk (*) immediately following the name. **These publications are not available from the U.S. Geological Survey.**

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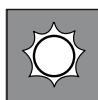
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ABSTRACTS

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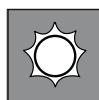
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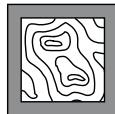


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TOPOGRAPHIC MAPS

The table below shows new and revised topographic maps printed by the USGS from July through September 2003.

Most USGS map series divide the United States into quadrangles bounded by two lines of latitude and two lines of longitude. The 1:24,000-scale series is usually published in 7.5-minute quadrangles. The 1:100,000-scale series is published in 30- by 60-minute quadrangles. The latitude and longitude that make up the map-bounding rectangle are shown in the table, along with the map name, State, scale, date, map type, and stock number (a unique number needed to process an order). Both an old stock number and a new stock number are listed for each map; when ordering, please use the new stock number.

The map type for 1:24,000-scale map revisions will always be a contour (topographic) edition. The 1:100,000-scale map type will be either Surface Management or Minerals Management.

Ordering forms are located at the back of the catalog. State topographic indexes and map lists are free on request. Each State index shows the areas mapped. The map lists group the map names alphabetically by scale and contain ordering information. Map lists are also available online at <http://mac.usgs.gov/mac/maplists/index.html>. For information on the new USGS initiative, The National Map, please visit <http://nationalmap.usgs.gov>.

New Stock Number	Old Stock Number	Map Name	Scale	Date	Longitude West / East	Latitude South / North	State	Map Type
34822	TAK0642	BRADFIELD CANAL A-2, AK	1:63,360	1/1/2000	-1304000 - -1302000	560000 - 561500	AK	Contours
34826	TAK0646	BRADFIELD CANAL A-6, AK	1:63,360	1/1/2000	-1320000 - -1314000	560000 - 561500	AK	Contours
34831	TAK0651	BRADFIELD CANAL B-6, AK	1:63,360	1/1/2000	-1320000 - -1314000	561500 - 563000	AK	Contours
35019	TAK0841	CORDOVA C-5, AK	1:63,360	1/1/2000	-1455230 - -1453000	603000 - 604500	AK	Contours
35042	TAK0864	CRAIG B-5, AK	1:63,360	1/1/2000	-1334000 - -1332000	551500 - 553000	AK	Contours
35043	TAK0865	CRAIG B-6, AK	1:63,360	1/1/2000	-1340000 - -1334000	551500 - 553000	AK	Contours
35050	TAK0872	CRAIG D-1, AK	1:63,360	1/1/2000	-1322000 - -1320000	554500 - 560000	AK	Contours
35464	TAK1288	JUNEAU A-6, AK	1:63,360	1/1/2000	-1360000 - -1354000	580000 - 581500	AK	Contours
35609	TAK1433	KETCHIKAN D-6, AK	1:63,360	1/1/2000	-1320000 - -1314000	554500 - 560000	AK	Contours
36275	TAK2102	PETERSBURG D-1, AK	1:63,360	1/1/2000	-1322000 - -1320000	564500 - 570000	AK	Contours
36578	TAK2406	SITKA B-2, AK	1:63,360	1/1/2000	-1344000 - -1342000	571500 - 573000	AK	Contours
36595	TAK2423	SITKA D-6, AK	1:63,360	1/1/2000	-1360000 - -1354000	574500 - 580000	AK	Contours
36679	TAK2507	SUMDUM A-2, AK	1:63,360	1/1/2000	-1324000 - -1322000	570000 - 571500	AK	Contours
36684	TAK2512	SUMDUM B-2, AK	1:63,360	1/1/2000	-1324000 - -1322000	571500 - 573000	AK	Contours
36690	TAK2518	SUMDUM C-3, AK	1:63,360	1/1/2000	-1330000 - -1324000	573000 - 574500	AK	Contours
37928	TAL0007	ADDISON, AL	1:24,000	1/1/2000	-871500 - -870730	340730 - 341500	AL	Contours
37956	TAL0038	ARLEY, AL	1:24,000	1/1/2000	-871500 - -870730	340000 - 340730	AL	Contours
37981	TAL0064	BEE BRANCH, AL	1:24,000	1/1/2000	-873000 - -872230	341500 - 342230	AL	Contours
38003	TAL0086	BLACK POND, AL	1:24,000	1/1/2000	-872230 - -871500	340000 - 340730	AL	Contours
38131	TAL0216	CRANE HILL, AL	1:24,000	1/1/2000	-870730 - -870000	340000 - 340730	AL	Contours
38149	TAL0234	DANVILLE, AL	1:24,000	1/1/2000	-870730 - -870000	342230 - 343000	AL	Contours
38167	TAL0253	DOUBLE SPRINGS, AL	1:24,000	1/1/2000	-873000 - -872230	340730 - 341500	AL	Contours
38307	TAL0393	GRAYSON, AL	1:24,000	1/1/2000	-872230 - -871500	341500 - 342230	AL	Contours
38365	TAL0453	HOUSTON, AL	1:24,000	1/1/2000	-872230 - -871500	340730 - 341500	AL	Contours
38409	TAL0497	JONES CHAPEL, AL	1:24,000	1/1/2000	-870730 - -870000	340730 - 341500	AL	Contours
38418	TAL0506	KINLOCK SPRING, AL	1:24,000	1/1/2000	-873730 - -873000	341500 - 342230	AL	Contours
38430	TAL0518	LANDERSVILLE, AL	1:24,000	1/1/2000	-873000 - -872230	342230 - 343000	AL	Contours
38471	TAL0560	MANCHESTER, AL	1:24,000	1/1/2000	-872230 - -871500	335230 - 340000	AL	Contours

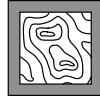


38481	TAL0570	MASSEY, AL	1:24,000	1/1/2000	-870730 - -870000	341500 - 342230	AL	Contours
38527	TAL0616	MOULTON, AL	1:24,000	1/1/2000	-872230 - -871500	342230 - 343000	AL	Contours
38546	TAL0635	NAUVOO, AL	1:24,000	1/1/2000	-873000 - -872230	335230 - 340000	AL	Contours
38556	TAL0645	NEWBURG, AL	1:24,000	1/1/2000	-873730 - -873000	342230 - 343000	AL	Contours
38570	TAL0659	OAKVILLE, AL	1:24,000	1/1/2000	-871500 - -870730	342230 - 343000	AL	Contours
38596	TAL0687	PAINT ROCK, AL	1:24,000	1/1/1997	-862230 - -861500	343730 - 344500	AL	Contours
38641	TAL0732	POPLAR SPRINGS, AL	1:24,000	1/1/2000	-873000 - -872230	340000 - 340730	AL	Contours
38747	TAL0839	SUNLIGHT, AL	1:24,000	1/1/2000	-871500 - -870730	335230 - 340000	AL	Contours
38799	TAL0893	UPSHAW, AL	1:24,000	1/1/2000	-871500 - -870730	341500 - 342230	AL	Contours
39848	TAR0518	MALVERN NORTH, AR	1:24,000	1/1/2000	-925230 - -924500	342230 - 343000	AR	Contours
42516	TAZ2114	APACHE, AZ	1:24,000	1/1/1996	-1091500 - -1090730	313730 - 314500	AZ	Contours
40496	TAZ0044	ARIVACA, AZ	1:24,000	1/1/1996	-1112230 - -1111500	313000 - 313730	AZ	Contours
40909	TAZ0464	ARIZONA CITY, AZ (FORMERLY ELOY NW, AZ)	1:24,000	1/1/1996	-1114500 - -1113730	323730 - 324500	AZ	Contours
40540	TAZ0091	BAGDAD, AZ	1:100,000	1/1/1999	-1140000 - -1130000	343000 - 350000	AZ	Surface Management
42524	TAZ2122	BAILEY PEAK, AZ-MEX	1:24,000	1/1/1996	-1123000 - -1122230	314500 - 315230	AZ	Contours
42529	TAZ2127	BEARGRASS BASIN, AZ	1:24,000	1/1/1997	-1101500 - -1100730	330000 - 330730	AZ	Contours
42547	TAZ2146	BLUE MOUNTAIN, AZ	1:24,000	1/1/1998	-1091500 - -1090730	320000 - 320730	AZ	Contours
42494	TAZ2091	BRUNO PEAK, AZ	1:24,000	1/1/1996	-1093000 - -1092230	313730 - 314500	AZ	Contours
42586	TAZ2186	CAPE SOLITUDE, AZ	1:24,000	1/1/1999	-1115230 - -1114500	360730 - 361500	AZ	Contours
40680	TAZ0231	CAPONERA PEAK, AZ-MEX	1:24,000	1/1/1996	-1114500 - -1113730	313000 - 313730	AZ	Contours
42470	TAZ2067	CHIRICAHUA PEAK, AZ	1:24,000	1/1/1997	-1092230 - -1091500	314500 - 315230	AZ	Contours
40770	TAZ0322	COBRE GRANDE MTN, AZ	1:24,000	1/1/1998	-1102230 - -1101500	325230 - 330000	AZ	Contours
40772	TAZ0324	COCHISE HEAD, AZ	1:24,000	1/1/1996	-1092230 - -1091500	320000 - 320730	AZ	Contours
42384	TAZ1979	COCHISE, AZ	1:24,000	1/1/1996	-1100000 - -1095230	320000 - 320730	AZ	Contours
40821	TAZ0373	CUMERO CANYON, AZ	1:24,000	1/1/1996	-1105230 - -1104500	312230 - 313000	AZ	Contours
40870	TAZ0423	DOUBLE ADOBE, AZ	1:24,000	1/1/1996	-1094500 - -1093730	312230 - 313000	AZ	Contours
42640	TAZ2241	DOUBTFUL CANYON, AZ NM	1:24,000	1/1/1998	-1090730 - -1090000	321500 - 322230	AZ NM	Contours
40876	TAZ0431	DOUGLAS NE, AZ	1:24,000	1/1/1996	-1093730 - -1093000	312230 - 313000	AZ	Contours
42644	TAZ2245	DURHAM HILLS, AZ	1:24,000	1/1/1996	-1111500 - -1110730	323730 - 324500	AZ	Contours
42483	TAZ2080	ELFRIDA, AZ	1:24,000	1/1/1986	-1094500 - -1093730	313730 - 314500	AZ	Contours
40910	TAZ0465	ELOY SOUTH, AZ	1:24,000	1/1/1996	-1113730 - -1113000	323730 - 324500	AZ	Contours
42386	TAZ1981	FERRY SWALE, AZ	1:24,000	1/1/1997	-1113730 - -1113000	365230 - 370000	AZ	Contours
40926	TAZ0481	FIFE PEAK, AZ	1:24,000	1/1/1996	-1093000 - -1092230	315230 - 320000	AZ	Contours
40966	TAZ0521	FRIENDLY CORNERS, AZ	1:24,000	1/1/1996	-1113730 - -1113000	323000 - 323730	AZ	Contours
41012	TAZ0567	GRAND CANYON, AZ	1:100,000	1/1/2001	-1130000 - -1120000	360000 - 363000	AZ	Surface Management
42362	TAZ1957	GREASEWOOD MOUNTAIN, AZ	1:24,000	1/1/1996	-1095230 - -1094500	322230 - 323000	AZ	Contours
41146	TAZ0701	IMPERIAL RESERVOIR, AZ CA	1:24,000	1/1/1997	-1143000 - -1142230	325230 - 330000	AZ CA	Contours



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41157	TAZ0712	JACKSON MOUNTAIN, AZ	1:24,000	1/1/1997	-1101500 -- 1100730	325230 - 330000	AZ	Contours
113657	-	KAIBAB NATIONAL FOREST, TUSAYAN RD, AZ	1:126,720	1/1/2003	-1123730 -- 1114500	350000 - 361500	AZ	No Contours
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42752	TAZ2353	LA LESNA MOUNTAINS, AZ-MEX	1:24,000	1/1/1996	-1121500 -- 1120730	313730 - 314500	AZ	Contours
42387	TAZ1982	LEES FERRY, AZ	1:24,000	1/1/1999	-1113730 -- 1113000	364500 - 365230	AZ	Contours
41247	TAZ0802	LITTLE WOOD CANYON, AZ	1:24,000	1/1/1996	-1092230 -- 1091500	320730 - 321500	AZ	Contours
42484	TAZ2081	MC NEAL, AZ	1:24,000	1/1/1996	-1094500 -- 1093730	313000 - 313730	AZ	Contours
42449	TAZ2046	MOIVAYI, AZ	1:24,000	1/1/1996	-1123000 -- 1122230	323000 - 323730	AZ	Contours
41371	TAZ0926	MONK DRAW, AZ	1:24,000	1/1/1996	-1094500 -- 1093730	322230 - 323000	AZ	Contours
42796	TAZ2398	MT TURNBULL, AZ	1:24,000	1/1/1998	-1102230 -- 1101500	330000 - 330730	AZ	Contours
41452	TAZ1008	NEWMAN PEAK, AZ	1:24,000	1/1/1996	-1113000 -- 1112230	323730 - 324500	AZ	Contours
41455	TAZ1011	NINETYSIX HILLS NE, AZ	1:24,000	1/1/1997	-1110730 -- 1110000	325230 - 330000	AZ	Contours
41473	TAZ1029	OAK GROVE CANYON, AZ	1:24,000	1/1/1996	-1103000 -- 1102230	324500 - 325230	AZ	Contours
41485	TAZ1041	OUTLAW MOUNTAIN, AZ	1:24,000	1/1/1996	-1095230 -- 1094500	313730 - 314500	AZ	Contours
42833	TAZ2435	PAPAGO FARMS, AZ	1:24,000	1/1/1996	-1122230 -- 1121500	314500 - 315230	AZ	Contours
42485	TAZ2082	PAT HILLS SOUTH, AZ	1:24,000	1/1/1996	-1093730 -- 1093000	315230 - 320000	AZ	Contours
42390	TAZ1986	PEARCE, AZ	1:24,000	1/1/1996	-1095230 -- 1094500	315230 - 320000	AZ	Contours
42474	TAZ2071	PEDREGOSA MOUNTAINS EAST, AZ	1:24,000	1/1/1996	-1092230 -- 1091500	313000 - 313730	AZ	Contours
42486	TAZ2083	PEDREGOSA MOUNTAINS WEST, AZ	1:24,000	1/1/1996	-1093000 -- 1092230	313000 - 313730	AZ	Contours
41525	TAZ1081	PENA BLANCA LAKE, AZ	1:24,000	1/1/1996	-1110730 -- 1110000	312230 - 313000	AZ	Contours
41547	TAZ1104	PICACHO PASS, AZ	1:24,000	1/1/1996	-1112230 -- 1111500	323730 - 324500	AZ	Contours
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41639	TAZ1196	RHODES PEAK, AZ	1:24,000	1/1/1996	-1103000 -- 1102230	323730 - 324500	AZ	Contours
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41700	TAZ1257	SAMANIEGO HILLS, AZ	1:24,000	1/1/1996	-1113000 -- 1112230	323000 - 323730	AZ	Contours
41702	TAZ1259	SAN AGUSTIN, AZ	1:24,000	1/1/1996	-1120000 -- 1115230	313000 - 313730	AZ	Contours
41709	TAZ1266	SAN MIGUEL, AZ	1:24,000	1/1/1996	-1115230 -- 1114500	313000 - 313730	AZ	Contours
81776	TNM2443	SAN SIMON CIENEGA, NM AZ	1:24,000	1/1/1996	-1090730 -- 1090000	320000 - 320730	AZ NM	Contours



42894	TAZ2497	SANTA ROSA MOUNTAINS NW, AZ	1:24,000	1/1/1996	-1120000 - -1115230	322230 - 323000	AZ	Contours
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42912	TAZ2516	SILVER BELL EAST, AZ	1:24,000	1/1/1996	-1113000 - -1112230	322230 - 323000	AZ	Contours
42913	TAZ2517	SILVER BELL WEST, AZ	1:24,000	1/1/1989	-1113730 - -1113000	322230 - 323000	AZ	Contours
42922	TAZ2527	SOUTH OF BAILEY PEAK, AZ-MEX	1:24,000	1/1/1996	-1123000 - -1122230	313730 - 314500	AZ	Contours
42924	TAZ2529	SOUTH OF PAPAGO FARMS, AZ-MEX	1:24,000	1/1/1996	-1122230 - -1121500	313730 - 314500	AZ	Contours
42488	TAZ2085	SQUARETOP HILLS WEST, AZ	1:24,000	1/1/1996	-1094500 - -1093730	314500 - 315230	AZ	Contours
42479	TAZ2076	STANFORD CANYON, AZ	1:24,000	1/1/1996	-1093000 - -1092230	314500 - 315230	AZ	Contours
42480	TAZ2077	SULPHUR HILLS, AZ	1:24,000	1/1/1996	-1094500 - -1093730	315230 - 320000	AZ	Contours
42489	TAZ2086	SWEDIE PEAK, AZ	1:24,000	1/1/1996	-1092230 - -1091500	313730 - 314500	AZ	Contours
42942	TAZ2548	TECOLOTE RANCH, AZ-MEX	1:24,000	1/1/1996	-1120730 - -1120000	313730 - 314500	AZ	Contours
112257	-	TONTO NATIONAL FOREST, AZ	1:126,720	1/1/2001	-1120730 - -1103730	331500 - 343000	AZ	No Contours
42380	TAZ1975	TURQUOISE MOUNTAIN, AZ	1:24,000	1/1/1996	-1095230 - -1094500	314500 - 315230	AZ	Contours
41983	TAZ1543	VAMORI, AZ-MEX	1:24,000	1/1/1996	-1120000 - -1115230	313730 - 314500	AZ	Contours
42963	TAZ2569	VANAR NW, AZ	1:24,000	1/1/1996	-1091500 - -1090730	320730 - 321500	AZ	Contours
42962	TAZ2568	VANAR, AZ NM	1:24,000	1/1/1996	-1090730 - -1090000	320730 - 321500	AZ NM	Contours
42393	TAZ1989	WATER POCKETS, AZ	1:24,000	1/1/1997	-1114500 - -1113730	365230 - 370000	AZ	Contours
42976	TAZ2582	WATERMAN PEAK, AZ	1:24,000	1/1/1996	-1113000 - -1112230	321500 - 322230	AZ	Contours
42373	TAZ1968	WEST OF GREASEWOOD MOUNTAIN, AZ	1:24,000	1/1/1996	-1100000 - -1095230	322230 - 323000	AZ	Contours
42987	TAZ2593	WEST OF VENTANA, AZ	1:24,000	1/1/1996	-1122230 - -1121500	322230 - 323000	AZ	Contours
42394	TAZ1990	WRATHER ARCH, AZ	1:24,000	1/1/1997	-1115230 - -1114500	365230 - 370000	AZ	Contours
42098	TAZ1658	YUMA WEST, AZ	1:24,000	1/1/1997	-1144500 - -1143730	323730 - 324500	AZ CA	Contours
43248	TCA0014	AGUA CALIENTE SPRING, CA	1:24,000	1/1/1997	-1162230 - -1161500	325230 - 330000	CA	Contours
112217	-	ANGELES NATIONAL FOREST-ENGLISH, CA	1:126,720	1/1/2002	-1185230 - -1173000	340730 - 344500	CA	No Contours
43312	TCA0080	ARROYO TAPIADO, CA	1:24,000	1/1/1997	-1161500 - -1160730	325230 - 330000	CA	Contours
46002	TCA2827	BRIDGEPORT, CA	1:100,000	1/1/2003	-1200000 - -1190000	380000 - 383000	CA NV	Surface Management
43628	TCA0406	CAZADERO, CA	1:24,000	1/1/1998	-1230730 - -1230000	383000 - 383730	CA	Contours
115292	DESOLATION WILDERNESS, ELDORADO NF, CA		1:31,680	1/1/2003	-1202000 - -1200230	385000 - 390000	CA	Contours
44134	TCA0921	GOOSE CREEK, CA	1:24,000	1/1/1997	-1210730 - -1210000	381500 - 382230	CA	Contours
44171	TCA0958	GUALALA, CA	1:24,000	1/1/1998	-1233730 - -1233000	384500 - 385230	CA	Contours
44202	TCA0990	HARPERS WELL, CA	1:24,000	1/1/1998	-1160000 - -1155230	330000 - 330730	CA	Contours



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45954	TCA2769	HAYFORK, CA	1:100,000	1/1/2002	-1240000 --1230000	403000 - 410000	CA	Surface Management
44287	TCA1075	HOWARD RANCH, CA	1:24,000	1/1/1999	-1210730 --1210000	370730 - 371500	CA	Contours
44312	TCA1100	IN-KO-PAH GORGE, CA	1:24,000	1/1/1997	-1160730 --1160000	323730 - 324500	CA	Contours
111595	USFS0157	INYO NATIONAL FOREST, CA	1:126,720	1/1/2002	-1192230 --1180000	360000 - 380730	CA NV	No Contours
44351	TCA1139	JACUMBA, CA	1:24,000	1/1/1997	-1161500 --1160730	323730 - 324500	CA	Contours
44387	TCA1175	KANE SPRING NW, CA	1:24,000	1/1/1998	-1160000 --1155230	330730 - 331500	CA	Contours
115224	-	LAKES BASIN PLUMAS-EUREKA STATE PARK	NO SCALE	1/1/2003	-1205000 --1203500	393500 - 394500	CA	Contours
112310	-	LASSEN NATIONAL FOREST, CA	1:126,720	1/1/1992	-1205230 --1203730	400000 - 412230	CA	No Contours
112310	-	LASSEN NATIONAL FOREST, CA	1:126,720	1/1/1992	-1205230 --1203730	400000 - 412230	CA	No Contours
44563	TCA1357	LIVE OAK SPRINGS, CA	1:24,000	1/1/1997	-1162230 --1161500	323730 - 324500	CA	Contours
44777	TCA1575	MORRO BAY SOUTH, CA	1:24,000	1/1/1998	-1205230 --1204500	351500 - 352230	CA	Contours
45068	TCA1867	PISMO BEACH, CA	1:24,000	1/1/1998	-1204500 --1203730	350730 - 351500	CA	Contours
45075	TCA1874	PLACERVILLE, CA	1:100,000	1/1/2002	-1210000 --1200000	383000 - 390000	CA	Surface Management
111600	USFS0171	PLUMAS NATIONAL FOREST, CA	1:126,720	1/1/2002	-1213730 --1200000	392230 - 401500	CA	
45118	TCA1917	PORT SAN LUIS, CA	1:24,000	1/1/1998	-1205230 --1204500	350830 - 351500	CA	Contours
45159	TCA1959	RACKERBY, CA	1:24,000	1/1/2002	-1212230 --1211500	392230 - 393000	CA	Contours
45288	TCA2091	SALTON, CA	1:24,000	1/1/1998	-1160000 --1155230	332230 - 333000	CA	Contours
45347	TCA2154	SAN JUAN BAUTISTA, CA	1:24,000	1/1/1997	-1213730 --1213000	364500 - 365230	CA	Contours
45391	TCA2198	SANTA CATALINA NORTH, CA	1:24,000	1/1/1998	-1183000 --1182230	332230 - 333000	CA	Contours
45392	TCA2199	SANTA CATALINA SOUTH, CA	1:24,000	1/1/1998	-1183000 --1182230	331500 - 332230	CA	Contours
45460	TCA2267	SEQUOIA & KINGS CANYON NP, CA	1:125,000	1/1/1996	-1191500 --1181000	361500 - 371500	CA	Contours
112260	-	SEQUOIA NATIONAL FOREST, GIANT SEQ., CA	1:126,720	1/1/2001	-1191500 --1180000	-352230 - 365230	CA	No Contours
45541	TCA2351	SOLYO, CA	1:24,000	1/1/1999	-1212230 --1211500	373000 - 373730	CA	Contours
45542	TCA2352	SOMBRERO PEAK, CA	1:24,000	1/1/1997	-1162230 --1161500	324500 - 325230	CA	Contours
45620	TCA2431	SWEENEY PASS, CA	1:24,000	1/1/1997	-1161500 --1160730	324500 - 325230	CA	Contours
47065	TCA3900	TELESCOPE PEAK, CA	1:24,000	1/1/1988	-1170730 --1170000	360730 - 361500	CA	Contours
45727	TCA2539	TUMEY HILLS, CA	1:24,000	1/1/2000	-1204500 --1203730	363000 - 363730	CA	Contours
46487	TCA3319	TWENTYNINE PALMS MOUNTAIN, CA	1:24,000	1/1/1997	-1160000 --1155230	340000 - 340730	CA	Contours
45932	TCA2746	YOSEMITIE VALLEY, CA	1:100,000	1/1/2002	-1200000 --1190000	373000 - 380000	CA	Surface Management
49692	TCO2208	CANON CITY, CO	1:100,000	1/1/2003	-1060000 --1050000	380000 - 383000	CO	Surface Management
49693	TCO2209	CANON CITY, CO	1:100,000	1/1/2003	-1060000 --1050000	380000 - 383000	CO	Minerals Management

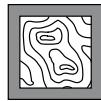


111531	USFS0039	COMANCHE NATIONAL GRASSLAND, CO	1:126,720	1/1/2003	-1040000 - -1021500	371500 - 380000	CO	No Contours
49707	TCO2224	CORTEZ, CO	1:100,000	1/1/2003	-1090000 - -1080000	370000 - 373000	CO	Surface Management
49708	TCO2225	CORTEZ, CO	1:100,000	1/1/2003	-1090000 - -1080000	370000 - 373000	CO	Minerals Management
49791	TCO2312	DURANGO, CO	1:100,000	1/1/2003	-1080000 - -1070000	370000 - 373000	CO	Surface Management
49792	TCO2313	DURANGO, CO	1:100,000	1/1/2003	-1080000 - -1070000	370000 - 373000	CO	Minerals Management
81410	TNM2067	FARMINGTON, NM	1:100,000	1/1/2003	-1090000 - -1080000	363000 - 370000	CO NM	Surface Management
81411	TNM2068	FARMINGTON, NM	1:100,000	1/1/2003	-1090000 - -1080000	363000 - 370000	CO NM	Minerals Management
80599	TNM1246	NAVAJO RESERVOIR, NM	1:100,000	1/1/2002	-1080000 - -1070000	363000 - 370000	CO NM	Minerals Management
80600	TNM1247	NAVAJO RESERVOIR, NM	1:100,000	1/1/2002	-1080000 - -1070000	363000 - 370000	CO NM	Surface Management
111658	USFS0508	SAN ISABEL NATIONAL FOREST (PLASTIC), CO	1:126,720	1/1/2003	-1063000 - -1045230	371500 - 392230	CO	No Contours
111544	USFS0053	SAN ISABEL NATIONAL FOREST, CO	1:126,720	1/1/2003	-1063000 - -1045230	371500 - 392230	CO	No Contours
111111	TWY1733	SARATOGA, WY	1:100,000	1/1/2003	-1070000 - -1060000	410000 - 413000	CO WY	Surface Management
111112	TWY1734	SARATOGA, WY	1:100,000	1/1/2003	-1070000 - -1060000	410000 - 413000	CO WY	Minerals Management
49297	TCO1809	STEAMBOAT SPRINGS, CO	1:100,000	1/1/2002	-1070000 - -1060000	400000 - 403000	CO	Minerals Management
49298	TCO1810	STEAMBOAT SPRINGS, CO	1:100,000	1/1/2002	-1070000 - -1060000	400000 - 403000	CO	Surface Management
49487	TCO2000	WALDEN, CO	1:100,000	1/1/2002	-1070000 - -1060000	403000 - 410000	CO WY	Minerals Management
49488	TCO2001	WALDEN, CO	1:100,000	1/1/2002	-1070000 - -1060000	403000 - 410000	CO WY	Surface Management
49982	TCT0108	VOLUNTOWN, CT	1:24,000	1/1/2001	-715230 - -714500	413000 - 413730	CT RI	Contours
50160	TFL0060	BAYARD, FL	1:24,000	1/1/1994	-813730 - -813000	300730 - 301500	FL	Contours
51353	TFL1317	FLORIDA SI W/TOPO (S/2 OF SET), FL	1:500,000	1/1/1989	FL	Water		Contours
50611	TFL0523	JACKSONVILLE HEIGHTS, FL	1:24,000	1/1/1994	-815230 - -814500	300730 - 301500	FL	Contours
50771	TFL0685	MAYPORT, FL	1:24,000	1/1/1994	-813000 - -812230	302230 - 303000	FL	Contours
51094	TFL1025	TALLAHASSEE, FL	1:24,000	1/1/1999	-842230 - -841500	302230 - 303000	FL	Contours
51191	TFL1129	WOODVILLE, FL	1:24,000	1/1/1999	-841500 - -840730	301500 - 302230	FL	Contours
51494	TGA0055	AUSTELL, GA	1:24,000	1/1/1999	-844500 - -843730	334500 - 335230	GA	Contours
51509	TGA0071	BALL GROUND EAST, GA	1:24,000	1/1/1999	-842230 - -841500	341500 - 342230	GA	Contours
51592	TGA0155	BUFORD DAM, GA	1:24,000	1/1/1999	-840730 - -840000	340730 - 341500	GA	Contours
51678	TGA0247	CONYERS, GA	1:24,000	1/1/1999	-840730 - -840000	333730 - 334500	GA	Contours
51702	TGA0272	CUMMING, GA	1:24,000	1/1/1999	-841500 - -840730	340730 - 341500	GA	Contours
51762	TGA0333	DULUTH, GA	1:24,000	1/1/1999	-841500 - -840730	340000 - 340730	GA	Contours



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51867	TGA0440	HAMPTON, GA	1:24,000	1/1/1999	-842230 - -841500	332230 - 333000	GA	Contours
52030	TGA0609	LUXOMNI, GA	1:24,000	1/1/1999	-840730 - -840000	335230 - 340000	GA	Contours
52088	TGA0670	MILSTEAD, GA	1:24,000	1/1/1999	-840000 - -835230	333730 - 334500	GA	Contours
52220	TGA0805	REDAN, GA	1:24,000	1/1/1999	-841500 - -840730	333730 - 334500	GA	Contours
52303	TGA0892	SNELLVILLE, GA	1:24,000	1/1/1999	-840730 - -840000	334500 - 335230	GA	Contours
52748	THI0075	KEANAE, HI	1:24,000	1/1/1992	-1561230 - -1560500	205000 - 205730	HI	Contours
52817	THI0144	WEST OF KOKOOLAU, HI (FORMER PU'U'OUO)	1:24,000	1/1/1993	-1554500 - -1553730	193000 - 193730	HI	Contours
112493	-	COUER D'ALENE NATIONAL FOREST, ID	1:126,720	1/1/2003	-1170000 - -1153730	472230 - 480730	ID	No Contours
112494	-	COUER D'ALENE NATIONAL FOREST, ID	1:126,720	1/1/2003	-1170000 - -1153730	472230 - 480730	ID	No Contours
74345	TMT3448	HEBGEN LAKE, MT	1:100,000	1/1/2002	-1120000 - -1110000	443000 - 450000	ID MT WY	Minerals Management
112495	-	KANIKSU NATIONAL FOREST, ID	1:126,720	1/1/2003	-1170730 - -1160000	480000 - 490000	ID	
55075	TID0927	MOUNTAIN HOME, ID	1:100,000	1/1/2003	-1160000 - -1150000	430000 - 433000	ID	Surface Management
55279	TID1138	REXBURG, ID	1:100,000	1/1/2003	-1120000 - -1110000	433000 - 440000	ID WY	Surface Management
55368	TID1232	SAWTELL PEAK, ID-MT	1:24,000	1/1/1997	-1113000 - -1112230	443000 - 443730	ID MT	Contours
55390	TID1254	SHEEP CREEK, ID	1:100,000	1/1/2002	-1160000 - -1150000	420000 - 423000	ID	Surface Management
55436	TID1300	SODA SPRINGS, ID	1:100,000	1/1/2003	-1120000 - -1110000	423000 - 430000	ID WY	Surface Management
55629	TID1501	WHITE CLOUD PEAKS, ID	1:100,000	1/1/2003	-1150000 - -1140000	440000 - 443000	ID	Surface Management
57393	TIL1271	ALTAMONT EAST, IL	1:24,000	1/1/1998	-884500 - -883730	390000 - 390730	IL	Contours
56160	TIL0011	ALTAMONT WEST, IL	1:24,000	1/1/1998	-885230 - -884500	390000 - 390730	IL	Contours
56173	TIL0024	ARGENTA, IL	1:24,000	1/1/1998	-885230 - -884500	395230 - 400000	IL	Contours
57085	TIL0947	ARTHUR, IL	1:24,000	1/1/1998	-883000 - -882230	393730 - 394500	IL	Contours
57065	TIL0927	ASHMORE, IL	1:24,000	1/1/1998	-880730 - -880000	393000 - 393730	IL	Contours
57107	TIL0970	ATWOOD, IL	1:24,000	1/1/1998	-883000 - -882230	394500 - 395230	IL	Contours
56191	TIL0043	AVENA, IL	1:24,000	1/1/1998	-890000 - -885230	390000 - 390730	IL	Contours
56211	TIL0063	BEECHER CITY, IL	1:24,000	1/1/1998	-885230 - -884500	390730 - 391500	IL	Contours
57083	TIL0945	CADWELL, IL	1:24,000	1/1/1998	-883730 - -883000	393730 - 394500	IL	Contours
57102	TIL0965	CERRO GORDO, IL	1:24,000	1/1/1999	-884500 - -883730	395230 - 400000	IL	Contours
57347	TIL1223	CHARLESTON SOUTH, IL	1:24,000	1/1/1998	-881500 - -880730	392230 - 393000	IL	Contours
57090	TIL0952	COOKS MILLS, IL	1:24,000	1/1/1998	-883000 - -882230	393000 - 393730	IL	Contours
57091	TIL0953	DALTON CITY, IL	1:24,000	1/1/1998	-885230 - -884500	393730 - 394500	IL	Contours
57310	TIL1181	DANA, IL	1:24,000	1/1/1999	-890000 - -885230	405230 - 410000	IL	Contours
57394	TIL1272	DIETERICH, IL	1:24,000	1/1/1998	-883000 - -882230	390000 - 390730	IL	Contours
56418	TIL0271	FANCHER, IL	1:24,000	1/1/1998	-885230 - -884500	391500 - 392230	IL	Contours
57088	TIL0950	FINDLAY, IL	1:24,000	1/1/1998	-885230 - -884500	393000 - 393730	IL	Contours
57368	TIL1244	GREENUP, IL	1:24,000	1/1/1998	-881500 - -880730	390730 - 391500	IL	Contours



57105	TIL0968	HAMMOND, IL	1:24,000	1/1/1998	-883730 - -883000	394500 - 395230	IL	Contours
56508	TIL0361	HERRICK, IL	1:24,000	1/1/1998	-890000 - -885230	390730 - 391500	IL	Contours
57043	TIL0905	HINDSBORO, IL	1:24,000	1/1/1998	-881500 - -880730	393730 - 394500	IL	Contours
57068	TIL0930	IVESDALE, IL	1:24,000	1/1/1998	-883000 - -882230	395230 - 400000	IL	Contours
57104	TIL0967	LA PLACE, IL	1:24,000	1/1/1999	-884500 - -883730	394500 - 395230	IL	Contours
56576	TIL0431	LAKWOOD, IL	1:24,000	1/1/1998	-890000 - -885230	391500 - 392230	IL	Contours
56591	TIL0446	LIBERTYVILLE, IL	1:24,000	1/1/1998	-880000 - -875230	421500 - 422230	IL	Contours
57056	TIL0918	LONGVIEW, IL	1:24,000	1/1/1998	-880730 - -880000	395230 - 400000	IL	Contours
57084	TIL0946	LOVINGTON, IL	1:24,000	1/1/1999	-884500 - -883730	393730 - 394500	IL	Contours
57106	TIL0969	MACON EAST, IL	1:24,000	1/1/1998	-890000 - -885230	393730 - 394500	IL	Contours
56655	TIL0511	MIDDLESWORTH, IL	1:24,000	1/1/1999	-884500 - -883730	392230 - 393000	IL	Contours
57062	TIL0924	MURDOCK, IL	1:24,000	1/1/1998	-880730 - -880000	394500 - 395230	IL	Contours
57343	TIL1219	NEOGA, IL	1:24,000	1/1/1998	-883000 - -882230	391500 - 392230	IL	Contours
57092	TIL0954	OAKLAND, IL	1:24,000	1/1/1998	-880730 - -880000	393730 - 394500	IL	Contours
57101	TIL0964	OBED, IL	1:24,000	1/1/1998	-890000 - -885230	393000 - 393730	IL	Contours
56820	TIL0677	RAYMOND NE, IL	1:24,000	1/1/1998	-893730 - -893000	392230 - 393000	IL	Contours
57397	TIL1275	SHUMWAY, IL	1:24,000	1/1/1998	-884500 - -883730	390730 - 391500	IL	Contours
56912	TIL0771	STEWARDSON EAST, IL	1:24,000	1/1/1998	-883730 - -883000	391500 - 392230	IL	Contours
56913	TIL0772	STEWARDSON WEST, IL	1:24,000	1/1/1998	-884500 - -883730	391500 - 392230	IL	Contours
57081	TIL0943	SULLIVAN, IL	1:24,000	1/1/1998	-883730 - -883000	393000 - 393730	IL	Contours
57400	TIL1278	TEUTOPOLIS, IL	1:24,000	1/1/1998	-883000 - -882230	390730 - 391500	IL	Contours
57066	TIL0928	TOLONO, IL	1:24,000	1/1/1998	-882230 - -881500	395230 - 400000	IL	Contours
56947	TIL0806	TOWER HILL, IL	1:24,000	1/1/1998	-890000 - -885230	392230 - 393000	IL	Contours
57100	TIL0963	TUSCOLA, IL	1:24,000	1/1/1999	-882230 - -881500	394500 - 395230	IL	Contours
57109	TIL0972	VILLA GROVE, IL	1:24,000	1/1/1998	-881500 - -880730	394500 - 395230	IL	Contours
57387	TIL1264	WHEELER, IL	1:24,000	1/1/1998	-882230 - -881500	390000 - 390730	IL	Contours
57010	TIL0871	WHEELING, IL	1:24,000	1/1/1998	-880000 - -875230	420730 - 421500	IL	Contours
57018	TIL0879	WINDSOR, IL	1:24,000	1/1/1998	-883730 - -883000	392230 - 393000	IL	Contours
57392	TIL1269	WOODBURY, IL	1:24,000	1/1/1998	-882230 - -881500	390730 - 391500	IL	Contours
57374	TIL1250	YALE, IL	1:24,000	1/1/1998	-880730 - -880000	390000 - 390730	IL	Contours
57604	TIN0043	BELMONT, IN	1:24,000	1/1/1998	-862230 - -861500	390730 - 391500	IN	Contours
57945	TIN0386	MITCHELL, IN	1:24,000	1/1/2000	-863000 - -862230	383730 - 384500	IN	Contours
57973	TIN0414	NASHVILLE, IN	1:24,000	1/1/1998	-861500 - -860730	390730 - 391500	IN	Contours
108969	TWV0233	MAJESTIC, WV KY VA	1:24,000	1/1/2001	-820730 - -820000	373000 - 373730	KY VA WV	Contours
109172	TWV0439	WHARNCLIFFE, WV VA KY	1:24,000	1/1/2001	-820000 - -815230	373000 - 373730	KY VA WV	Contours
61472	TLA0020	ASHLY, LA	1:24,000	1/1/1998	-910730 - -910000	322230 - 323000	LA MS	Contours
61533	TLA0082	BOSSIER CITY, LA	1:24,000	1/1/1998	-934500 - -933730	323000 - 323730	LA	Contours
61762	TLA0313	HELL HOLE BAYOU, LA	1:24,000	1/1/1998	-920730 - -920000	293000 - 293730	LA	Contours
61891	TLA0442	LOST LAKE, LA	1:24,000	1/1/1998	-910730 - -910000	291500 - 292230	LA	



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61999	TLA0551	PEASON, LA	1:24,000	1/1/1998	-932230 - -931500	312230 - 313000	LA	Contours
62528	TLA1085	VIXEN, LA	1:24,000	1/1/1998	-922230 - -921500	320730 - 321500	LA	Contours
109383	TWV0660	CHERRY RUN, WV-MD-PA	1:24,000	1/1/1998	-780730 - -780000	393730 - 394500	MD PA WV	Contours
67624	TMN1208	PIGEON POINT, MN	1:24,000	1/1/1999	-893730 - -893000	475500 - 480230	MI MN ON	Contours
66763	TMN0325	CRANBERRY BAY, MN-CAN	1:24,000	1/1/1999	-930730 - -930000	483000 - 483730	MN	Contours
66787	TMN0350	DALEY BAY, MN	1:24,000	1/1/1999	-930000 - -925230	482230 - 483000	MN	Contours
66901	TMN0466	ERICSBURG, MN	1:24,000	1/1/1999	-932230 - -931500	482230 - 483000	MN	Contours
67052	TMN0620	GRAND PORTAGE, MN	1:24,000	1/1/1999	-894500 - -893730	475500 - 480230	MN	Contours
67172	TMN0743	INTERNATIONAL FALLS, MN-CAN	1:24,000	1/1/1999	-933000 - -932230	483000 - 483730	MN	Contours
67184	TMN0755	ISLAND VIEW, MN	1:24,000	1/1/1999	-931500 - -930730	483000 - 483730	MN	Contours
67227	TMN0799	KEMPTON BAY, MN-CAN	1:24,000	1/1/1999	-925230 - -924500	483000 - 483730	MN	Contours
67237	TMN0809	KETTLE FALLS, MN	1:24,000	1/1/1999	-924500 - -923730	483000 - 483730	MN	Contours
67445	TMN1024	MINERAL CENTER, MN	1:24,000	1/1/1999	-895230 - -894500	475230 - 480000	MN ON	Contours
67681	TMN1269	RANIER, MN-CAN	1:24,000	1/1/1999	-932230 - -931500	483000 - 483730	MN	Contours
67837	TMN1429	SOLDIER POINT, MN	1:24,000	1/1/1999	-930000 - -925230	483000 - 483730	MN	Contours
111628	USFS0374	SUPERIOR NATIONAL FOREST, MN	1:126,720	1/1/2003	-930730 - -895230	471500 - 483000	MN	No Contours
70756	TMS0727	ASHLAND, MS	1:24,000	1/1/2000	-891500 - -890730	344500 - 345230	MS	Contours
70048	TMS0016	AVENT, MS	1:24,000	1/1/2000	-885230 - -884500	305230 - 310000	MS	Contours
70051	TMS0019	BAGLEY LAKE, MS	1:24,000	1/1/1980	-893000 - -892230	342230 - 343000	MS	Contours
70057	TMS0025	BARBARA, MS	1:24,000	1/1/2000	-890000 - -885230	305230 - 310000	MS	Contours
70074	TMS0042	BEAUMONT, MS	1:24,000	1/1/2000	-890000 - -885230	310730 - 311500	MS	Contours
70079	TMS0047	BENNDALE, MS	1:24,000	1/1/2000	-885230 - -884500	304500 - 305230	MS	Contours
70809	TMS0782	BETHLEHEM, MS	1:24,000	1/1/2000	-892230 - -891500	343000 - 343730	MS	Contours
70814	TMS0787	BLUE MOUNTAIN, MS	1:24,000	1/1/2000	-890730 - -890000	343730 - 344500	MS	Contours
70714	TMS0685	BROOKLYN, MS	1:24,000	1/1/2000	-891500 - -890730	310000 - 310730	MS	Contours
70703	TMS0674	CAMP HILL, MS TN	1:24,000	1/1/2000	-890730 - -890000	345230 - 350000	MS TN	Contours
70702	TMS0673	CANAAN, MS	1:24,000	1/1/1982	-891500 - -890730	345230 - 350000	MS TN	Contours
70815	TMS0788	CHILLI CREEK, MS	1:24,000	1/1/2000	-891500 - -890730	343730 - 344500	MS	Contours
70838	TMS0815	COFFEEVILLE, MS	1:24,000	1/1/2000	-894500 - -893730	335230 - 340000	MS	Water Contours
70824	TMS0800	COKER LAKE, MS	1:24,000	1/1/2000	-895230 - -894500	340000 - 340730	MS	Contours
70166	TMS0135	DENMARK, MS	1:24,000	1/1/1980	-892230 - -891500	341500 - 342230	MS	Contours
70197	TMS0166	ETTA, MS	1:24,000	1/1/2000	-891500 - -890730	342230 - 343000	MS	Contours
70802	TMS0775	FALKNER, MS	1:24,000	1/1/2000	-890000 - -885230	344500 - 345230	MS	Contours
70812	TMS0785	HICKORY FLAT, MS	1:24,000	1/1/2000	-891500 - -890730	343000 - 343730	MS	Contours
70268	TMS0237	HOLLY SPRINGS SE, MS	1:24,000	1/1/2000	-892230 - -891500	344500 - 345230	MS	Contours
70267	TMS0236	HOLLY SPRINGS, MS	1:24,000	1/1/2000	-893000 - -892230	344500 - 345230	MS	Contours



70724	TMS0695	JANICE, MS	1:24,000	1/1/2000	-890730 - -890000	310000 - 310730	MS	Contours
70808	TMS0781	MALONE, MS	1:24,000	1/1/2000	-893000 - -892230	343000 - 343730	MS	Contours
70721	TMS0692	MC LAURIN, MS	1:24,000	1/1/2000	-891500 - -890730	310730 - 311500	MS	Contours
70804	TMS0777	MYRTLE, MS	1:24,000	1/1/2000	-890730 - -890000	343000 - 343730	MS	Contours
70720	TMS0691	NEW AUGUSTA, MS	1:24,000	1/1/2000	-890730 - -890000	310730 - 311500	MS	Contours
70825	TMS0801	OAKLAND, MS	1:24,000	1/1/2000	-900000 - -895230	340000 - 340730	MS	Contours
70813	TMS0786	POTTS CAMP, MS	1:24,000	1/1/2000	-892230 - -891500	343730 - 344500	MS	Contours
70505	TMS0474	PUSKUS LAKE, MS	1:24,000	1/1/2000	-892230 - -891500	342230 - 343000	MS	Contours
70844	TMS0821	SCOBAY, MS	1:24,000	1/1/2000	-895230 - -894500	335230 - 340000	MS	Contours
70605	TMS0574	TAYLOR HILL, MS	1:24,000	1/1/2000	-890000 - -885230	310000 - 310730	MS	Contours
70611	TMS0580	THAXTON, MS	1:24,000	1/1/2000	-891500 - -890730	341500 - 342230	MS	Contours
70830	TMS0807	TILLATOBA, MS	1:24,000	1/1/2000	-900000 - -895230	335230 - 340000	MS	Contours
70700	TMS0671	WALNUT, MS TN	1:24,000	1/1/2000	-890000 - -885230	345230 - 350000	MS TN	Contours
70758	TMS0729	WATERFORD, MS	1:24,000	1/1/2000	-893000 - -892230	343730 - 344500	MS	Contours
70760	TMS0731	WHITTEN TOWN, MS	1:24,000	1/1/2000	-890730 - -890000	344500 - 345230	MS	Contours
70691	TMS0660	YOCONA, MS	1:24,000	1/1/2000	-893000 - -892230	341500 - 342230	MS	Contours
71180	TMT0147	BELMONT POINT, MT	1:24,000	1/1/1999	-1133730 - -1133000	470000 - 470730	MT	Contours
71270	TMT0239	BLUE POINT, MT	1:24,000	1/1/1999	-1135230 - -1134500	465230 - 470000	MT	Contours
71528	TMT0499	COOPERS LAKE, MT	1:24,000	1/1/1999	-1130000 - -1125230	470000 - 470730	MT	Contours
71578	TMT0549	CUT BANK, MT	1:100,000	1/1/2002	-1130000 - -1120000	483000 - 490000	MT	Minerals Management
71579	TMT0550	CUT BANK, MT	1:100,000	1/1/2002	-1130000 - -1120000	483000 - 490000	MT	Surface Management
71675	TMT0649	DUNHAM POINT, MT	1:24,000	1/1/1999	-1131500 - -1130730	470730 - 471500	MT	Contours
73563	TMT2590	EKALAKA, MT	1:100,000	1/1/2002	-1050000 - -1040000	453000 - 460000	MT ND SD	Surface Management
73564	TMT2591	EKALAKA, MT	1:100,000	1/1/2002	-1050000 - -1040000	453000 - 460000	MT ND SD	Minerals Management
71789	TMT0764	FLINT MOUNTAIN, MT	1:24,000	1/1/1999	-1130000 - -1125230	471500 - 472230	MT	Contours
71913	TMT0897	GOLD CREEK PEAK, MT	1:24,000	1/1/1965	-1134500 - -1133730	470000 - 470730	MT	Contours
71964	TMT0951	HAHN CREEK PASS, MT	1:24,000	1/1/1999	-1131500 - -1130730	471500 - 472230	MT	Contours
74346	TMT3449	HEBGEN LAKE, MT	1:100,000	1/1/2002	-1120000 - -1110000	443000 - 450000	MT	Surface Management
72241	TMT1230	LAKE INEZ, MT	1:24,000	1/1/1999	-1133730 - -1133000	471500 - 472230	MT	Contours
72242	TMT1231	LAKE MARSHALL, MT	1:24,000	1/1/1999	-1134500 - -1133730	471500 - 472230	MT	Contours
72246	TMT1235	LAKE MOUNTAIN, MT	1:24,000	1/1/1999	-1130000 - -1125230	470730 - 471500	MT	Contours
74406	TMT3510	LONESOME LAKE, MT	1:100,000	1/1/2002	-1110000 - -1100000	480000 - 483000	MT	Surface Management
114746	TMT3510	LONESOME LAKE, MT	1:100,000	1/1/2002	-1110000 - -1100000	480000 - 483000	MT	Minerals Management
72526	TMT1522	MORRELL LAKE, MT	1:24,000	1/1/1999	-1133000 - -1132230	471500 - 472230	MT	Contours
72527	TMT1523	MORRELL MOUNTAIN, MT	1:24,000	1/1/1965	-1132230 - -1131500	470730 - 471500	MT	Contours
72649	TMT1647	OVANDO, MT	1:24,000	1/1/1999	-1131500 - -1130730	470000 - 470730	MT	Contours



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72846	TMT1847	RINGLING, MT	1:100,000	1/1/2002	-1110000 - -1100000	460000 - 463000	MT	Surface Management
72847	TMT1848	RINGLING, MT	1:100,000	1/1/2002	-1110000 - -1100000	460000 - 463000	MT	Surface Management
72917	TMT1918	SALMON LAKE, MT	1:24,000	1/1/1999	-1133000 - -1132230	470000 - 470730	MT	Contours
72961	TMT1964	SEELEY LAKE EAST, MT	1:24,000	1/1/1999	-1133000 - -1132230	470730 - 471500	MT	Contours
72962	TMT1965	SEELEY LAKE WEST, MT	1:24,000	1/1/1999	-1133730 - -1133000	470730 - 471500	MT	Contours
72959	TMT1962	SEELEY LAKE, MT	1:100,000	1/1/2002	-1140000 - -1130000	470000 - 473000	MT	Minerals Management
72960	TMT1963	SEELEY LAKE, MT	1:100,000	1/1/2002	-1140000 - -1130000	470000 - 473000	MT	Surface Management
73057	TMT2061	SPREAD MOUNTAIN, MT	1:24,000	1/1/1999	-1130730 - -1130000	470730 - 471500	MT	Contours
73120	TMT2124	STUART PEAK, MT	1:24,000	1/1/1999	-1140000 - -1135230	470000 - 470730	MT	Contours
73239	TMT2248	UPPER JOCKO LAKE, MT	1:24,000	1/1/1999	-1134500 - -1133730	470730 - 471500	MT	Contours
73282	TMT2292	WAPITI LAKE, MT	1:24,000	1/1/1999	-1135230 - -1134500	470000 - 470730	MT	Contours
73374	TMT2386	WINIFRED, MT	1:100,000	1/1/2002	-1100000 - -1090000	473000 - 480000	MT	Minerals Management
73375	TMT2388	WINIFRED, MT	1:100,000	1/1/2002	-1100000 - -1090000	473000 - 480000	MT	Surface Management
73404	TMT2422	WOODWORTH, MT	1:24,000	1/1/1999	-1132230 - -1131500	470000 - 470730	MT	Contours
74428	TNC0016	AQUADALE, NC	1:24,000	1/1/2002	-801500 - -800730	350730 - 351500	NC	Contours
74448	TNC0036	BANOAK, NC	1:24,000	1/1/2002	-813000 - -812230	353000 - 353730	NC	Contours
74459	TNC0047	BELEWS CREEK, NC	1:24,000	1/1/2000	-800730 - -800000	360730 - 361500	NC	Contours
74467	TNC0055	BESSEMER CITY, NC	1:24,000	1/1/2002	-812230 - -811500	351500 - 352230	NC	Contours
75258	TNC0851	BOILING SPRINGS NORTH, NC	1:24,000	1/1/2002	-814500 - -813730	351500 - 352230	NC	Contours
74538	TNC0126	CHERRYVILLE, NC	1:24,000	1/1/2002	-813000 - -812230	352230 - 353000	NC	Contours
74584	TNC0172	DAVIS, NC	1:24,000	1/1/2002	-763000 - -762230	344500 - 345230	NC	Contours
74613	TNC0201	EFLAND, NC	1:24,000	1/1/2002	-791500 - -790730	360000 - 360730	NC	Contours
74656	TNC0245	FOREST CITY, NC	1:24,000	1/1/2002	-815230 - -814500	351500 - 352230	NC	Contours
74664	TNC0253	FROG POND, NC	1:24,000	1/1/2002	-802230 - -801500	351500 - 352230	NC	Contours
74666	TNC0255	FRYING PAN, NC	1:24,000	1/1/2002	-760730 - -760000	354500 - 355230	NC	Contours
74674	TNC0263	GASTONIA NORTH, NC	1:24,000	1/1/2002	-811500 - -810730	351500 - 352230	NC	Contours
74681	TNC0270	GILREATH, NC	1:24,000	1/1/2000	-810730 - -810000	360000 - 360730	NC	Contours
74694	TNC0283	GRANDIN, NC	1:24,000	1/1/2000	-813000 - -812230	360000 - 360730	NC	Contours
74722	TNC0314	HARMONY, NC	1:24,000	1/1/2000	-805230 - -804500	355230 - 360000	NC	Contours
74728	TNC0320	HATTERAS, NC	1:24,000	1/1/2002	-754500 - -753730	351100 - 351830	NC	Contours
74753	TNC0345	HORSE GAP, NC	1:24,000	1/1/2000	-812230 - -811500	361500 - 362230	NC	Contours
75263	TNC0858	LAWNDALE, NC	1:24,000	1/1/2002	-813730 - -813000	352230 - 353000	NC	Contours
74822	TNC0414	LITTLE KINNAKEET, NC	1:24,000	1/1/2002	-753400 - -752630	352230 - 353000	NC	Contours
74857	TNC0449	MARSHVILLE, NC	1:24,000	1/1/2002	-802230 - -801500	345230 - 350000	NC	Contours
74877	TNC0469	MIDDLETOWN, NC	1:24,000	1/1/2002	-760730 - -760000	352100 - 353000	NC	Contours
74892	TNC0484	MORAVIAN FALLS, NC	1:24,000	1/1/2000	-811500 - -810730	360000 - 360730	NC	Contours
74893	TNC0485	MORGANTON NORTH, NC	1:24,000	1/1/2002	-814500 - -813730	354500 - 355230	NC	Contours
74906	TNC0498	MOUNT PLEASANT, NC	1:24,000	1/1/2002	-803000 - -802230	352230 - 353000	NC	Contours



74948	TNC0540	OCRACOKE, NC	1:24,000	1/1/2002	-760000 - -755230	350000 - 350730	NC	Contours
75266	TNC0861	POLKVILLE, NC	1:24,000	1/1/2002	-814500 - -813730	352230 - 353000	NC	Contours
75022	TNC0614	RICHFIELD, NC	1:24,000	1/1/2002	-802230 - -801500	352230 - 353000	NC	Contours
75057	TNC0649	RUSSELLVILLE, NC	1:24,000	1/1/2002	-801500 - -800730	345230 - 350000	NC	Contours
75058	TNC0650	RUTHERFORDTON NORTH, NC	1:24,000	1/1/2002	-820000 - -815230	352230 - 353000	NC	Contours
75275	TNC0870	SHELBY, NC	1:24,000	1/1/2002	-813730 - -813000	351500 - 352230	NC	Contours
75128	TNC0721	STANFIELD, NC	1:24,000	1/1/2002	-803000 - -802230	350730 - 351500	NC	Contours
75142	TNC0735	SUNSHINE, NC	1:24,000	1/1/2002	-815230 - -814500	352230 - 353000	NC	Contours
75184	TNC0777	WADESBORO, NC	1:24,000	1/1/2002	-800730 - -800000	345230 - 350000	NC	Contours
75229	TNC0822	WINGATE, NC	1:24,000	1/1/2002	-803000 - -802230	345230 - 350000	NC	Contours
77290	TND1578	BELFIELD, ND	1:100,000	1/1/2002	-1040000 - -1030000	463000 - 470000	ND	Surface Management
77291	TND1579	BELFIELD, ND	1:100,000	1/1/2002	-1040000 - -1030000	463000 - 470000	ND	Minerals Management
76121	TND0401	ELGIN, ND	1:100,000	1/1/2002	-1020000 - -1010000	460000 - 463000	ND	Minerals Management
76122	TND0402	ELGIN, ND	1:100,000	1/1/2002	-1020000 - -1010000	460000 - 463000	ND	Surface Management
79447	TNM0080	ANTON CHICO, NM	1:24,000	1/1/2002	-1051500 - -1050730	350730 - 351500	NM	Contours
79449	TNM0082	APACHE PEAK, NM	1:24,000	1/1/1999	-1074500 - -1073730	330000 - 330730	NM	Contours
81662	TNM2327	APACHE SPRINGS, NM	1:24,000	1/1/2002	-1051500 - -1050730	351500 - 352230	NM	Contours
79463	TNM0096	ARROYO CHIJUILLITA, NM	1:24,000	1/1/2002	-1070730 - -1070000	360000 - 360730	NM	Contours
79481	TNM0114	AURORA, NM	1:24,000	1/1/2002	-1053000 - -1052230	350730 - 351500	NM	Contours
79559	TNM0193	BLACK PEAK, NM	1:24,000	1/1/1999	-1085230 - -1084500	340000 - 340730	NM	Contours
79560	TNM0194	BLACK POINT, NM	1:24,000	1/1/1998	-1090000 - -1085230	312230 - 313000	NM	Contours
81667	TNM2332	BRUSHY MOUNTAIN, NM	1:24,000	1/1/1999	-1084500 - -1083730	324500 - 325230	NM	Contours
79612	TNM0246	BULL CANYON, NM	1:24,000	1/1/2002	-1055230 - -1054500	352230 - 353000	NM	Contours
79629	TNM0263	C BAR RANCH, NM	1:24,000	1/1/1999	-1083000 - -1082230	322230 - 323000	NM	Contours
79670	TNM0304	CAPITOL DOME, NM	1:24,000	1/1/1996	-1074500 - -1073730	320730 - 321500	NM	Contours
79686	TNM0321	CARNE, NM	1:24,000	1/1/1996	-1073730 - -1073000	321500 - 322230	NM	Contours
81493	TNM2155	CARRIZOZO, NM	1:100,000	1/1/2003	-1060000 - -1050000	333000 - 340000	NM	Surface Management
81494	TNM2156	CARRIZOZO, NM	1:100,000	1/1/2003	-1060000 - -1050000	333000 - 340000	NM	Minerals Management
79781	TNM0421	CIRCLE MESA, NM	1:24,000	1/1/1992	-1083000 - -1082230	324500 - 325230	NM	Contours
79784	TNM0424	CLANTON DRAW, NM	1:24,000	1/1/1998	-1090000 - -1085230	313000 - 313730	NM	Contours
79812	TNM0452	COLUMBUS NE, NM	1:24,000	1/1/1996	-1073730 - -1073000	315230 - 320000	NM	Contours
79813	TNM0453	COLUMBUS SE, NM MEX	1:24,000	1/1/1996	-1073730 - -1073000	314500 - 315230	NM	Contours
79811	TNM0451	COLUMBUS, NM MEX	1:24,000	1/1/1996	-1074500 - -1073730	314500 - 315230	NM	Contours
79873	TNM0513	CUBA, NM	1:24,000	1/1/2002	-1070000 - -1065230	360000 - 360730	NM	Contours
79903	TNM0543	DEMING EAST, NM	1:24,000	1/1/1996	-1074500 - -1073730	321500 - 322230	NM	Contours
79904	TNM0544	DEMING WEST, NM	1:24,000	1/1/1996	-1075230 - -1074500	321500 - 322230	NM	Contours
79915	TNM0555	DIABLO RANGE, NM	1:24,000	1/1/1999	-1083000 - -1082230	330730 - 331500	NM	Contours



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79946	TNM0586	EAGLE PEAK, NM	1:24,000	1/1/1999	-1083730 - -1083000	333730 - 334500	NM	Contours
79993	TNM0634	ESPANOLA, NM	1:24,000	1/1/2002	-1060730 - -1060000	355230 - 360000	NM	Contours
80026	TNM0667	FLORIDA GAP, NM	1:24,000	1/1/1996	-1073730 - -1073000	320730 - 321500	NM	Contours
81356	TNM2010	FRENCH MESA, NM	1:24,000	1/1/2002	-1065230 - -1064500	361500 - 362230	NM	Contours
80097	TNM0738	GILMAN, NM	1:24,000	1/1/2002	-1065230 - -1064500	353730 - 354500	NM	Contours
80113	TNM0754	GOLD HILL, NM	1:24,000	1/1/1999	-1083730 - -1083000	322230 - 323000	NM	Contours
80132	TNM0773	GRANNY MOUNTAIN, NM	1:24,000	1/1/1999	-1082230 - -1081500	330000 - 330730	NM	Contours
81557	TNM2220	HENDRICKS PEAK, NM	1:24,000	1/1/1999	-1080000 - -1075230	325230 - 330000	NM	Contours
80211	TNM0854	HONEY BOY RANCH, NM	1:24,000	1/1/2002	-1053730 - -1053000	353730 - 354500	NM	Contours
80216	TNM0859	HORCADO RANCH, NM	1:24,000	1/1/2002	-1060730 - -1060000	354500 - 355230	NM	Contours
80274	TNM0918	JEMEZ PUEBLO, NM	1:24,000	1/1/2002	-1064500 - -1063730	353000 - 353730	NM	Contours
80344	TNM0989	LAGUNA ORTIZ, NM	1:24,000	1/1/2002	-1053730 - -1053000	351500 - 352230	NM	Contours
80380	TNM1025	LEYBA, NM	1:24,000	1/1/2002	-1053730 - -1053000	350730 - 351500	NM	Contours
115311	-	LINCOLN NATIONAL FOREST (PLASTIC), NM	1:126,720	1/1/2003	-1060000 - -1051500	323000 - 331500	NM	No Contours
80421	TNM1068	LOS ALAMOS, NM	1:100,000	1/1/2003	-1070000 - -1060000	353000 - 360000	NM	Minerals Management
80422	TNM1069	LOS ALAMOS, NM	1:100,000	1/1/2003	-1070000 - -1060000	353000 - 360000	NM	Surface Management
80556	TNM1203	MONTEZUMA, NM	1:24,000	1/1/2002	-1052230 - -1051500	353730 - 354500	NM	Contours
80576	TNM1223	MOUNT BALDY, NM	1:24,000	1/1/1997	-1090000 - -1085230	313730 - 314500	NM	Contours
80629	TNM1276	NORTH PEAK, NM	1:24,000	1/1/1996	-1074500 - -1073730	315230 - 320000	NM	Contours
80647	TNM1294	OJITOS FRIOS, NM	1:24,000	1/1/2002	-1052230 - -1051500	353000 - 353730	NM	Contours
80751	TNM1400	PONDEROSA, NM	1:24,000	1/1/2002	-1064500 - -1063730	353730 - 354500	NM	Contours
80789	TNM1439	PUYE, NM	1:24,000	1/1/2002	-1061500 - -1060730	355230 - 360000	NM	Contours
80816	TNM1466	READING MOUNTAIN, NM	1:24,000	1/1/1999	-1082230 - -1081500	325230 - 330000	NM	Contours
81725	TNM2390	REDROCK, NM	1:24,000	1/1/1999	-1084500 - -1083730	323730 - 324500	NM	Contours
80834	TNM1484	RENCONA, NM	1:24,000	1/1/2002	-1054500 - -1053730	351500 - 352230	NM	Contours
80858	TNM1508	ROSWELL, NM	1:100,000	1/1/2002	-1050000 - -1040000	330000 - 333000	NM	Minerals Management
80859	TNM1509	ROSWELL, NM	1:100,000	1/1/2002	-1050000 - -1040000	330000 - 333000	NM	Surface Management
80911	TNM1561	SAN JUAN, NM	1:24,000	1/1/2002	-1052230 - -1051500	350730 - 351500	NM	Contours
81731	TNM2396	SENA, NM	1:24,000	1/1/2002	-1053000 - -1052230	351500 - 352230	NM	Contours
81019	TNM1672	SLAUGHTER MESA, NM	1:24,000	1/1/1999	-1083000 - -1082230	340000 - 340730	NM	Contours
81043	TNM1696	SPRING CANYON, NM	1:24,000	1/1/1999	-1080730 - -1080000	332230 - 333000	NM	Contours
81233	TNM1887	VALLECITOS, NM	1:24,000	1/1/2002	-1062230 - -1061500	360000 - 360730	NM	Contours
81750	TNM2415	VILLANUEVA, NM	1:24,000	1/1/2002	-1052230 - -1051500	351500 - 352230	NM	Contours
82173	TNV0281	CRESCENT VALLEY, NV	1:100,000	1/1/2002	-1170000 - -1160000	400000 - 403000	NV	Surface Management
83408	TNV1564	HIGH ROCK CANYON, NV	1:100,000	1/1/2003	-1200000 - -1190000	410000 - 413000	NV	Surface Management
82952	TNV1092	RUBY LAKE, NV	1:100,000	1/1/2002	-1160000 - -1150000	400000 - 403000	NV	Surface Management
83179	TNV1323	TUSCARORA, NV	1:100,000	1/1/2002	-1170000 - -1160000	410000 - 413000	NV	Surface Management



105558	TWA0309	EATONVILLE, WA	1:24,000	1/1/1998	-1222230 - -1221500	464500 - 465230	OR WA	Contours
105654	TWA0405	GOLDDENDALE, WA	1:100,000	1/1/2003	-1210000 - -1200000	453000 - 460000	OR WA	Minerals Management
105655	TWA0406	GOLDDENDALE, WA	1:100,000	1/1/2003	-1210000 - -1200000	453000 - 460000	OR WA	Surface Management
111618	USFS0226	ROGUE RIVER NATIONAL FOREST MAP, OR	1:126,720	1/1/2003			OR	
94244	TTN0009	ANTIOCH, TN	1:24,000	1/1/1999	-864500 - -863730	360000 - 360730	TN	Contours
94273	TTN0038	BELLEVUE, TN	1:24,000	1/1/1997	-870000 - -865230	360000 - 360730	TN	Contours
94369	TTN0136	CLARKSVILLE, TN	1:24,000	1/1/1997	-872230 - -871500	363000 - 363730	TN	Contours
94474	TTN0241	FRANKLIN, TN	1:24,000	1/1/1997	-865230 - -864500	355230 - 360000	TN	Contours
94591	TTN0359	LA VERGNE, TN	1:24,000	1/1/1997	-863730 - -863000	360000 - 360730	TN	Contours
94706	TTN0475	NASHVILLE EAST, TN	1:24,000	1/1/1997	-864500 - -863730	360730 - 361500	TN	Contours
94726	TTN0495	OAK HILL, TN	1:24,000	1/1/1997	-865230 - -864500	360000 - 360730	TN	Contours
94824	TTN0594	SCOTTSBORO, TN	1:24,000	1/1/1997	-870000 - -865230	360730 - 361500	TN	Contours
101531	TUT0002	ABES KNOll, UT	1:24,000	1/1/2001	-1115230 - -1114500	382230 - 383000	UT	Contours
101543	TUT0014	ANNABELLA, UT	1:24,000	1/1/2001	-1120730 - -1120000	383730 - 384500	UT	Contours
101548	TUT0019	ANTELOPE RANGE, UT	1:24,000	1/1/2001	-1121500 - -1120730	383000 - 383730	UT	Contours
101570	TUT0041	AURORA, UT	1:24,000	1/1/2001	-1120000 - -1115230	385230 - 390000	UT	Contours
103243	TUT1724	BEEHIVE PEAK, UT	1:24,000	1/1/2001	-1120730 - -1120000	385230 - 390000	UT	Contours
103622	TUT2105	BLACK RIDGE, UT	1:24,000	1/1/2001	-1123730 - -1123000	381500 - 382230	UT	Contours
101621	TUT0092	BLUFF NW, UT	1:24,000	1/1/1996	-1094500 - -1093730	372230 - 373000	UT	Contours
101630	TUT0101	BOOBIE HOLE RESERVOIR, UT	1:24,000	1/1/2001	-1115230 - -1114500	383730 - 384500	UT	Contours
101676	TUT0147	BURRVILLE, UT	1:24,000	1/1/2001	-1115230 - -1114500	383000 - 383730	UT	Contours
103135	TUT1615	CATHEDRAL MOUNTAIN, UT	1:24,000	1/1/2001	-1112230 - -1111500	382230 - 383000	UT	Contours
101720	TUT0191	CHAMPLIN PEAK, UT	1:24,000	1/1/2001	-1121500 - -1120730	393000 - 393730	UT	Contours
101729	TUT0200	CIRCLEVILLE MTN, UT	1:24,000	1/1/2001	-1123000 - -1122230	380730 - 381500	UT	Contours
101728	TUT0199	CIRCLEVILLE, UT	1:24,000	1/1/2001	-1122230 - -1121500	380730 - 381500	UT	Contours
101747	TUT0218	COFFEE PEAK, UT	1:24,000	1/1/2001	-1121500 - -1120730	390000 - 390730	UT	Contours
103297	TUT1778	COVE FORT, UT	1:24,000	1/1/2001	-1123730 - -1123000	383000 - 383730	UT	Contours
101794	TUT0265	DELANO PEAK, UT	1:24,000	1/1/2001	-1122230 - -1121500	381500 - 382230	UT	Contours
103313	TUT1794	DOG VALLEY PEAK, UT	1:24,000	1/1/2001	-1123730 - -1123000	383730 - 384500	UT	Contours
103683	TUT2170	DRUID ARCH, UT	1:24,000	1/1/1997	-1095230 - -1094500	380000 - 380730	UT	Contours
103318	TUT1799	DUGGINS CREEK, UT	1:24,000	1/1/2001	-1122230 - -1121500	390730 - 391500	UT	Contours
103322	TUT1803	ELATERITE BASIN, UT	1:24,000	1/1/1996	-1100730 - -1100000	380730 - 381500	UT	Contours
101857	TUT0328	ELSINORe, UT	1:24,000	1/1/2001	-1121500 - -1120730	383730 - 384500	UT	Contours
101895	TUT0366	FILLMORE, UT	1:24,000	1/1/2001	-1122230 - -1121500	385230 - 390000	UT	Contours
101898	TUT0369	FISH LAKE, UT	1:24,000	1/1/2001	-1114500 - -1113730	383000 - 383730	UT	Contours
103121	TUT1600	FLAT TOP, UT	1:24,000	1/1/2001	-1113000 - -1112230	382230 - 383000	UT	Contours
103186	TUT1666	FOOL CREEK PEAK, UT	1:24,000	1/1/2001	-1121500 - -1120730	392230 - 393000	UT	Contours
101925	TUT0396	FORSYTH RESERVOIR, UT	1:24,000	1/1/2001	-1113730 - -1113000	383000 - 383730	UT	Contours



101949	TUT0420	GEYSER PEAK, UT	1:24,000	1/1/2001	-1113000 -- 1112230	383000 - 383730	UT	Contours
101967	TUT0438	GOOSEBERRY CREEK, UT	1:24,000	1/1/2001	-1114500 -- 1113730	384500 - 385230	UT	Contours
101993	TUT0464	GREENWICH, UT	1:24,000	1/1/2001	-1120000 -- 1115230	382230 - 383000	UT	Contours
102043	TUT0514	HILGARD MTN, UT	1:24,000	1/1/2001	-1113730 -- 1113000	383730 - 384500	UT	Contours
102089	TUT0560	JIMMIES POINT, UT	1:24,000	1/1/1998	-1110730 -- 1110000	401500 - 402230	UT	Contours
102091	TUT0562	JOHNS PEAK, UT	1:24,000	1/1/2001	-1113000 -- 1112230	383730 - 384500	UT	Contours
102096	TUT0567	JOSEPH PEAK, UT	1:24,000	1/1/2001	-1122230 -- 1121500	383730 - 384500	UT	Contours
102103	TUT0574	KANE CANYON, UT	1:24,000	1/1/2001	-1123730 -- 1123000	380730 - 381500	UT	Contours
103401	TUT1882	KANOSH, UT	1:24,000	1/1/2001	-1123000 -- 1122230	384500 - 385230	UT	Contours
102123	TUT0594	KOOSHAREM, UT	1:24,000	1/1/2001	-1120000 -- 1115230	383000 - 383730	UT	Contours
102154	TUT0625	LOA, UT	1:24,000	1/1/2001	-1114500 -- 1113730	382230 - 383000	UT	Contours
103125	TUT1605	LYMAN, UT	1:24,000	1/1/2001	-1113730 -- 1113000	382230 - 383000	UT	Contours
102185	TUT0658	MALMSTEN PEAK, UT	1:24,000	1/1/2001	-1120730 -- 1120000	381500 - 382230	UT	Contours
102200	TUT0673	MARYSVALE CANYON, UT	1:24,000	1/1/2001	-1122230 -- 1121500	383000 - 383730	UT	Contours
102201	TUT0674	MARYSVALE PEAK, UT	1:24,000	1/1/2001	-1120730 -- 1120000	382230 - 383000	UT	Contours
102199	TUT0672	MARYSVALE, UT	1:24,000	1/1/2001	-1121500 -- 1120730	382230 - 383000	UT	Contours
102231	TUT0704	MONROE PEAK, UT	1:24,000	1/1/2001	-1120730 -- 1120000	383000 - 383730	UT	Contours
102251	TUT0724	MOUNT BELKNAP, UT	1:24,000	1/1/2001	-1123000 -- 1122230	382230 - 383000	UT	Contours
102252	TUT0725	MOUNT BRIGHAM, UT	1:24,000	1/1/2001	-1122230 -- 1121500	382230 - 383000	UT	Contours
102259	TUT0732	MT CATHERINE, UT	1:24,000	1/1/2001	-1121500 -- 1120730	385230 - 390000	UT	Contours
102273	TUT0746	MT TERRILL, UT	1:24,000	1/1/2001	-1114500 -- 1113730	383730 - 384500	UT	Contours
103197	TUT1678	OAK CITY NORTH, UT	1:24,000	1/1/2001	-1122230 -- 1121500	392230 - 393000	UT	Contours
103171	TUT1651	OAK CITY SOUTH, UT	1:24,000	1/1/2001	-1122230 -- 1121500	391500 - 392230	UT	Contours
102322	TUT0797	OLD WOMAN PLATEAU, UT	1:24,000	1/1/2001	-1113000 -- 1112230	384500 - 385230	UT	Contours
102348	TUT0823	PARKER KNOLL, UT	1:24,000	1/1/2001	-1120000 -- 1115230	381500 - 382230	UT	Contours
102377	TUT0852	PIUTE RESERVOIR, UT	1:24,000	1/1/2001	-1121500 -- 1120730	381500 - 382230	UT	Contours
103621	TUT2104	POLE MOUNTAIN, UT	1:24,000	1/1/2001	-1123730 -- 1123000	382230 - 383000	UT	Contours
102421	TUT0896	RASPBERRY KNOLL, UT	1:24,000	1/1/1998	-1110000 -- 1105230	401500 - 402230	UT	Contours
102426	TUT0901	RED BREAKS, UT	1:24,000	1/1/1997	-1112230 -- 1111500	373730 - 374500	UT	Contours
102436	TUT0911	RED RIDGE, UT	1:24,000	1/1/2001	-1123000 -- 1122230	383730 - 384500	UT	Contours
102445	TUT0920	REX RESERVOIR, UT	1:24,000	1/1/2001	-1115230 -- 1114500	384500 - 385230	UT	Contours
103506	TUT1989	RICHFIELD, UT	1:24,000	1/1/2001	-1120730 -- 1120000	384500 - 385230	UT	Contours
102480	TUT0955	SALINA, UT	1:24,000	1/1/2001	-1115230 -- 1114500	385230 - 390000	UT	Contours
102503	TUT0978	SCIPIO LAKE, UT	1:24,000	1/1/2001	-1120730 -- 1120000	390000 - 390730	UT	Contours
102505	TUT0980	SCIPIO PASS, UT	1:24,000	1/1/2001	-1121500 -- 1120730	390730 - 391500	UT	Contours
102506	TUT0981	SCIPIO SOUTH, UT	1:24,000	1/1/2001	-1120730 -- 1120000	390730 - 391500	UT	Contours
102524	TUT0999	SHELLY BALDY PEAK, UT	1:24,000	1/1/2001	-1123000 -- 1122230	381500 - 382230	UT	Contours
103515	TUT1998	SIXMILE POINT, UT	1:24,000	1/1/2001	-1123730 -- 1123000	384500 - 385230	UT	Contours
103682	TUT2169	SPANISH BOTTOM, UT	1:24,000	1/1/1996	-1100000 -- 1095230	380730 - 381500	UT	Contours
102572	TUT1047	STEVES MTN, UT	1:24,000	1/1/2001	-1114500 -- 1113730	385230 - 390000	UT	Contours
103534	TUT2017	SUNSET PEAK, UT	1:24,000	1/1/2001	-1122230 -- 1121500	384500 - 385230	UT	Contours



102650	TUT1125	TRAIL MOUNTAIN, UT	1:24,000	1/1/2001	-1123000 - -1122230	383000 - 383730	UT	Contours
103131	TUT1611	TWIN ROCKS, UT	1:24,000	1/1/2001	-1112230 - -1111500	381500 - 382230	UT	Contours
102696	TUT1171	WALKER FLAT, UT	1:24,000	1/1/2001	-1112230 - -1111500	384500 - 385230	UT	Contours
102703	TUT1178	WATER CREEK CANYON, UT	1:24,000	1/1/2001	-1120000 - -1115230	383730 - 384500	UT	Contours
102704	TUT1179	WATER HOLLOW RIDGE, UT	1:24,000	1/1/2001	-1113730 - -1113000	385230 - 390000	UT	Contours
103595	TUT2078	WHITE PINE PEAK, UT	1:24,000	1/1/2001	-1121500 - -1120730	384500 - 385230	UT	Contours
103175	TUT1655	WILLIAMS PEAK, UT	1:24,000	1/1/2001	-1121500 - -1120730	391500 - 392230	UT	Contours
102755	TUT1230	YOGO CREEK, UT	1:24,000	1/1/2001	-1113730 - -1113000	384500 - 385230	UT	Contours
105270	TWA0020	ALGER, WA	1:24,000	1/1/1998	-1222230 - -1221500	483000 - 483730	WA	Contours
105281	TWA0031	ANACORTES NORTH, WA	1:24,000	1/1/1998	-1223730 - -1223000	483000 - 483730	WA	Contours
106787	TWA1554	ANDERSON LAKE, WA	1:24,000	1/1/1998	-1220730 - -1220000	463730 - 464500	WA	Contours
105326	TWA0077	BELFAIR, WA	1:24,000	1/1/1999	-1225230 - -1224500	472230 - 473000	WA	Contours
105329	TWA0080	BELLINGHAM SOUTH, WA	1:24,000	1/1/1998	-1223000 - -1222230	483730 - 484500	WA	Contours
106736	TWA1502	BOBS MOUNTAIN, WA	1:24,000	1/1/2000	-1221500 - -1220730	453730 - 454500	WA	Contours
105397	TWA0148	BURLEY, WA	1:24,000	1/1/1999	-1224500 - -1223730	472230 - 473000	WA	Contours
105429	TWA0180	CENTER, WA	1:24,000	1/1/1997	-1225230 - -1224500	475230 - 480000	WA	Contours
105557	TWA0308	EASTSOUND, WA	1:24,000	1/1/1997	-1230000 - -1225230	483730 - 484500	WA	Contours
105629	TWA0380	FOX ISLAND, WA	1:24,000	1/1/1997	-1224500 - -1223730	471500 - 472230	WA	Contours
105631	TWA0382	FREELAND, WA	1:24,000	1/1/1998	-1223730 - -1223000	480000 - 480730	WA	Contours
106524	TWA1279	GIFFORD PEAK, WA	1:24,000	1/1/1998	-1215230 - -1214500	455230 - 460000	WA	Contours
105645	TWA0396	GLACIATE BUTTE, WA	1:24,000	1/1/1998	-1213000 - -1212230	461500 - 462230	WA	Contours
106530	TWA1285	GULER MTN, WA	1:24,000	1/1/1998	-1213730 - -1213000	455230 - 460000	WA	Contours
106742	TWA1508	GUMBOOT MTN, WA	1:24,000	1/1/1998	-1221500 - -1220730	454500 - 455230	WA	Contours
106628	TWA1391	HOFFSTADT MOUNTAIN, WA	1:24,000	1/1/1998	-1223000 - -1222230	461500 - 462230	WA	Contours
105729	TWA0480	HURRICANE HILL, WA	1:24,000	1/1/1999	-1233730 - -1233000	475230 - 480000	WA	Contours
105768	TWA0519	KING MOUNTAIN, WA	1:24,000	1/1/1998	-1213000 - -1212230	460000 - 460730	WA	Contours
106531	TWA1286	KLICKITAT, WA	1:24,000	1/1/2000	-1211500 - -1210730	454500 - 455230	WA	Contours
106889	TWA1659	LAKE ROESIGER, WA	1:24,000	1/1/1997	-1220000 - -1215230	475230 - 480000	WA	Contours
105798	TWA0549	LAKE WOOTEN, WA	1:24,000	1/1/1999	-1230000 - -1225230	472230 - 473000	WA	Contours
106745	TWA1511	LARCH MTN, WA	1:24,000	1/1/2000	-1222230 - -1221500	453730 - 454500	WA	Contours
105831	TWA0582	LONE BUTTE, WA	1:24,000	1/1/1998	-1215230 - -1214500	460000 - 460730	WA	Contours
105834	TWA0585	LONGBRANCH, WA	1:24,000	1/1/1997	-1225230 - -1224500	470730 - 471500	WA	Contours
106737	TWA1503	LOOKOUT MTN, WA	1:24,000	1/1/1998	-1220730 - -1220000	454500 - 455230	WA	Contours
105846	TWA0597	LUMMI BAY, WA	1:24,000	1/1/1997	-1224500 - -1223730	484500 - 485230	WA	Contours
105878	TWA0629	MASON LAKE, WA	1:24,000	1/1/1997	-1230000 - -1225230	471500 - 472230	WA	Contours
106916	TWA1686	MINERAL, WA	1:24,000	1/1/1998	-1221500 - -1220730	463730 - 464500	WA	Contours
105931	TWA0682	MOUNT ADAMS EAST, WA	1:24,000	1/1/1998	-1213000 - -1212230	460730 - 461500	WA	Contours
106614	TWA1375	MOUNT ST HELENS, WA	1:24,000	1/1/1998	-1221500 - -1220730	460730 - 461500	WA	Contours
105963	TWA0714	MT CARRIE, WA	1:24,000	1/1/1999	-1234500 - -1233730	475230 - 480000	WA	Contours
106943	TWA1718	MT STEEL, WA	1:24,000	1/1/1999	-1232230 - -1231500	473730 - 474500	WA	Contours



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106959	TWA1734	OLD SNOWY MTN, WA	1:24,000	1/1/1998	-1213000 --1212230	463000 - 463730	WA	Contours
106048	TWA0800	ORTING, WA	1:24,000	1/1/1997	-1221500 --1220730	470000 - 470730	WA	Contours
106135	TWA0887	QUARTZ CREEK BUTTE, WA	1:24,000	1/1/1998	-1215230 --1214500	460730 - 461500	WA	Contours
106993	TWA1769	SAWTOOTH RIDGE, WA	1:24,000	1/1/1998	-1220000 --1215230	463730 - 464500	WA	Contours
106217	TWA0969	SEABECK, WA	1:24,000	1/1/1997	-1225230 --1224500	473730 - 474500	WA	Water Contours
106761	TWA1527	SIOUXON PEAK, WA	1:24,000	1/1/1998	-1221500 --1220730	455230 - 460000	WA	Contours
106249	TWA1001	SLEEPING BEAUTY, WA	1:24,000	1/1/1998	-1214500 --1213730	460000 - 460730	WA	Contours
106275	TWA1027	SPENCER BUTTE, WA	1:24,000	1/1/1998	-1220000 --1215230	460730 - 461500	WA	Contours
107000	TWA1776	SPIRAL BUTTE, WA	1:24,000	1/1/2000	-1212230 --1211500	463730 - 464500	WA	Contours
106534	TWA1289	STABLER, WA	1:24,000	1/1/1998	-1220000 --1215230	454500 - 455230	WA	Contours
106305	TWA1057	STEAMBOAT MTN, WA	1:24,000	1/1/1998	-1214500 --1213730	460730 - 461500	WA	Contours
107014	TWA1790	TATOOSH LAKES, WA	1:24,000	1/1/1998	-1214500 --1213730	463730 - 464500	WA	Contours
106525	TWA1280	TERMINATION POINT, WA	1:24,000	1/1/1998	-1220000 --1215230	455230 - 460000	WA	Contours
107016	TWA1792	THE ROCKIES, WA	1:24,000	1/1/1998	-1222230 --1221500	463730 - 464500	WA	Contours
106375	TWA1127	TOPPENISH, WA	1:100,000	1/1/2002	-1210000 --1200000	460000 - 463000	WA	Minerals Management
106376	TWA1128	TOPPENISH, WA	1:100,000	1/1/2002	-1210000 --1200000	460000 - 463000	WA	Surface Management
106384	TWA1136	TROUT LAKE, WA	1:24,000	1/1/1998	-1213730 --1213000	460000 - 460730	WA	Contours
106623	TWA1386	VANSON PEAK, WA	1:24,000	1/1/1998	-1221500 --1220730	462230 - 463000	WA	Contours
106426	TWA1178	WALDRON ISLAND, WA	1:24,000	1/1/1997	-1230730 --1230000	483730 - 484500	WA	Contours
107036	TWA1813	WELLESLEY PEAK, WA	1:24,000	1/1/1999	-1232230 --1231500	474500 - 475230	WA	Contours
106456	TWA1208	WENATCHEE, WA	1:100,000	1/1/2002	-1210000 --1200000	470000 - 473000	WA	Minerals Management
106457	TWA1210	WENATCHEE, WA	1:100,000	1/1/2002	-1210000 --1200000	470000 - 473000	WA	Surface Management
107037	TWA1814	WHITE PASS, WA	1:24,000	1/1/1998	-1213000 --1212230	463730 - 464500	WA	Contours
106484	TWA1237	WILDCAT LAKE, WA	1:24,000	1/1/1997	-1225230 --1224500	473000 - 473730	WA	Contours
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109126	TWV0391	SUMMERSVILLE, WV	1:24,000	1/1/1996	-805230 --804500	381500 - 382230	WV	Contours
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109185	TWV0452	WILSONDALE, WV	1:24,000	1/1/1996	-822230 --821500	375230 - 380000	WV	Contours
111662	USFS0512	BIGHORN NATIONAL FOREST (PLASTIC), WY	1:126,720	1/1/2001	-1081500 --1063730	440000 - 450000	WY	No Contours
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111115	TWY1737	RENO JUNCTION, WY	1:100,000	1/1/2003	-1060000 - -1050000	433000 - 440000	WY	Minerals Management
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